

Program Key

- A** Coatings for Use at High Temperatures
- B** Hard Coatings and Vapor Deposition Technologies
- C** Functional Thin Films and Surfaces
- D** Coatings for Biomedical and Healthcare Applications
- E** Tribology and Mechanical Behavior of Coatings and Engineered Surfaces
- EX** Exhibitors Keynote Lecture
- F** New Horizons in Coatings and Thin Films
- G** Surface Engineering - Applied Research and Industrial Applications
- H** Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes
- HL** Awards Convocation and Honorary Lecture
- PL** Plenary Lecture
- SIT** Special Interest Talks
- TS** Topical Symposia
 - TS1** Anti- and De-Icing Surface Engineering
 - TS2** Thin Films on Polymer Substrates: Flexible Electronics and Beyond
 - TS3** Electrochemical Cells – Hydrogen and Batteries
 - TS4** Big Data, Machine Learning, Artificial Intelligence and High-Throughput Methods
 - TS5** Sustainable Surface Solutions, Materials, Processes and Applications
 - TS6** A Session to Acknowledge the Contributions of Joe Greene to ASED, ICMCTF, AVS, & IUVSTA

PROGRAM NUMBERS: They are listed with the Symposium letter first, the session number second, the Day of the Week, Morning (M) or Afternoon (A) and the presentation slot (e.g., **B1-1-MoM6**).

HELPFUL HINTS:

1. Verify all technical session start times (morning and afternoon).
2. Please note that on Monday, the technical sessions begin at 10:00 am following the 8:00 am Plenary Session. Morning sessions begin at 8:00 am but on some days the starting times may vary.
3. Afternoon sessions start times vary between 1:20 – 2:00 p.m.
4. Break times have been inserted into Tuesday and Wednesday programming and you are encouraged to use your extended lunches and breaks to visit the Exhibit Hall.
5. Invited speakers are allotted 40 minutes and contributed speakers are allotted 20 minutes. Please verify your presentation time, as printed in the program book.
6. Oral Presenters: All technical session rooms are equipped with computers running MS Office, screens, microphones, laser pointers, and projectors, as well as an HDMI connection from podium to projector. PowerPoint is the recommended presentation software—the preferred format is 16:9; you may use 4:3 but there will be black space above and below your presentation on some of the screens. We encourage you to use the system and to test your presentation on our equipment in the Presenter's Preview Room in Sunset 2 prior to your talk. If you are using the conference-provided computer, please load your presentation on to this computer at least five minutes prior to the start of the session or during a session break. In deference to all our presenters, it is important that personal computer/projector compatibility issues be worked out well in advance of your presentation and the projector should be compatible with both PC's and MAC's; however, please bring any necessary adapters/dongles as well as a copy of your presentation on a flash drive as a back-up.
7. Poster Presenters: Please post a small photo of the presenter on the poster sign affixed to your assigned board. Boards will be available for posting materials from 12:00 am until 4:00 pm on Thursday, May 26. Prior to hanging your poster, poster presenters must check in at the Registration desk to show photo identification, as well as your registration badge. These forms of identification must match the name of the poster presenter listed in the ICMCTF program. The sign listing the paper's number, title, and presenting author will aid each presenter in locating your board. The board space provided is approximately four feet by four feet and all posters MUST be posted by 4:00 pm. Any posters not displayed by 4:00 pm will be removed from the Program and be listed as a No Show. All presenters are required to be at their poster during the entire session (5:00 - 7:00 pm), in order to promote discussion and for the author to answer attendee questions. Be forewarned, all poster materials will be discarded if not removed from the boards by 9:00 pm Thursday evening.

Reminder: Please turn off CELL PHONES when you are attending the Technical Sessions

ICMCTF 2022 Program Overview

Room /Time	Golden State Ballroom	Pacific C	Pacific D	Pacific E	Town & Country A	Town & Country B	Town & Country C	Town & Country D
MoPL					PL-MoPL			
MoM		D1-1-MoM	H1-1-MoM	A1-1-MoM	TS5-MoM	F5-1-MoM	B2-1-MoM	B4-1-MoM
MoSIT					SIT1-MoSIT			
MoA		D1-2-MoA	H1-2-MoA	G4-MoA	TS6-1-MoA		B2-2-MoA F5-2-MoA	A1-2-MoA B4-2-MoA
TuM		D2-TuM	H2-1-TuM	A1-3-TuM	TS6-2-TuM	E3-TuM	F2-1-TuM G1-TuM	B4-3-TuM
TuEx					EX-TuM			
TuA	EXHIBITION	TS2-1-TuA	D3-TuA H3-TuA	G3-TuA	TS6-3-TuA	E1-1-TuA	F2-2-TuA	A2-1-TuA B4-4-TuA
TuSIT					SIT2-TuSIT			
WeM		C1-WeM	F4-1-WeM H2-2-WeM	A2-2-WeM		E1-2-WeM	B5-1-WeM B6-1-WeM	
WeSIT					SIT3-WeSIT			
WeA			F1-WeA	F4-2-WeA		E1-3-WeA TS3-WeA	B5-2-WeA	B6-2-WeA C2-1-WeA
WeHL					HL-WeHL			
ThM			C2-2-ThM C3-1-ThM	F4-3-ThM		E2-1-ThM G2-ThM	B1-1-ThM	B8-1-ThM
ThL							FTS1-ThL	
ThA			B3-ThA	TS4-ThA		E2-2-ThA	B1-2-ThA C3-2-ThA	B8-2-ThA
ThP	POSTER SESSIONS							
FrM						TS1-FrM	C4-FrM F3-FrM	

Monday Morning, May 23, 2022

Plenary Lecture

Room Town & Country A - Session PL-MoPL

Plenary Lecture: The Fundamental Physics of Spray

Coatings and Surface Impacts: Unit Process Studies of

Hypersonic Particle Impacts

Moderator: Samir Aouadi, University of North Texas, USA

8:00am	<p>INVITED: PL-MoPL-1 PLENARY LECTURE: The Fundamental Physics of Spray Coatings and Surface Impacts: Unit Process Studies of Hypersonic Particle Impacts,</p> <p><i>Christopher A. Schuh, MIT, USA</i></p>	
8:20am		

Monday Morning, May 23, 2022

Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes Room Pacific D - Session H1-1-MoM Spatially-resolved and In-Situ Characterization of Thin Films and Engineered Surfaces I Moderators: Grégory Abadias, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France, Xavier Maeder, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland, Michael Tkadletz, Montanuniversität Leoben, Austria		Coatings for Biomedical and Healthcare Applications Room Pacific C - Session D1-1-MoM Surface Coatings and Surface Modifications in Biological Environments I Moderators: Mathew T. Mathew, University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA, Phaedra Silva-Bermudez, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico
10:00am	INVITED: H1-1-MoM-1 In Situ Observations and Measurements of Plastic Deformation, Phase Transformations and Fracture With 4D-STEM, <i>Andrew Minor</i> , UC Berkeley and LBNL, USA	D1-1-MoM-1 Corrosion Evaluation of ZrO ₂ Coatings Deposited on Biodegradable MgZnCa Alloy for Orthopedic Applications, <i>Benjamin Millan, S. Rodil</i> , UNAM, Mexico; <i>J. Victoria-Hernandez</i> , Helmholtz-Zentrum Geesthacht, Germany
10:20am		D1-1-MoM-2 Novel Duplex Treatments Prepared by HiPIMS and HVOF/Solgel on Biodegradable Magnesium Alloy for Biomedical Applications, <i>Adrián Claver</i> , Universidad Pública de Navarra (UPNA), Spain; <i>I. Fernandez, J. Santiago</i> , Nano4Energy SL, Spain; <i>I. Quintana</i> , Fundación Tekniker, Spain; <i>L. Mendizabal</i> , Fundación Tekniker , Spain; <i>J. García</i> , Universidad Pública de Navarra (UPNA), Spain
10:40am	H1-1-MoM-3 Real-Time N ₂ -Mediated Growth Manipulation of Ultrathin Ag Layers, <i>Gregory Abadias</i> , Institut PPrime - CNRS - ENSMA - Université de Poitiers, France; <i>A. Jamnig, D. Babonneau, A. Michel, Y. Robin</i> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>A. Resta, A. Vlad, A. Coati</i> , Synchrotron SOLEIL, France; <i>K. Sarakinos</i> , University of Helsinki, Finland; <i>B. Krause</i> , Karlsruhe Institute of Technology (KIT), Germany	INVITED: D1-1-MoM-3 Surface Properties Control Immune Response to Implanted Biomaterials, <i>Rene Olivares-Navarrete</i> , Virginia Commonwealth University, USA
11:00am	H1-1-MoM-4 Phase Transformation and Solid-State Dewetting of Precious Metal High Entropy Alloy Thin Films on a Sapphire Substrate, <i>Xavier Maeder, A. Sharma, P. Schweizer, J. Michler</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland	
11:20am	H1-1-MoM-5 Investigation of Silicon Samples by the Emerging Picosecond Ultrasonics, <i>F. Faese, Julien Michelon, X. Tridon</i> , Neta, France	D1-1-MoM-5 Metal Oxide Thin Films as Osteoinductive Coatings, <i>Phaedra Silva-Bermudez, M. Fernández-Lizárraga, D. Morquecho-Marín</i> , Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <i>B. Millán-Ramos</i> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <i>J. García-López</i> , Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <i>S. Rodil</i> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México
11:40am		D1-1-MoM-6 Synergetic Effect of Porous Ta ₂ O ₅ Surface With Zn/ZnO Core-Shell Nanoparticles on Antimicrobial Activity and Corrosion Resistance, <i>Luísa Fialho, C. Rebelo</i> , University of Minho, Portugal; <i>C. Alves</i> , Instituto Pedro Nunes, Coimbra, Portugal; <i>J. Castro</i> , University of Coimbra, Portugal; <i>P. Sampaio</i> , University of Minho, Portugal; <i>S. Carvalho</i> , University of Coimbra, Portugal

Monday Morning, May 23, 2022

Coatings for Use at High Temperatures Room Pacific E - Session A1-1-MoM Coatings to Resist High-temperature Oxidation, Corrosion, and Fouling I Moderators: Shigenari Hayashi , Hokkaido University, Japan, Justyna Kulczyk-Malecka , Manchester Metropolitan Univ., UK		Hard Coatings and Vapor Deposition Technologies Room Town & Country C - Session B2-1-MoM CVD Coatings and Technologies I Moderator: Raphael Boichot , Grenoble-INP/CNRS, France
10:00am	INVITED: A1-1-MoM-1 Performance of Innovative High-Temperature Coatings after Exposure in a Pilot Plant Burning Biomass, Alina Agüero Bruna , Instituto Nacional de Técnica Aeroespacial INTA, Spain; P. Audigié, S. Rodriguez , Instituto Nacional de Técnica Aeroespacial (INTA), Spain; M. Gutiérrez, Instituto Nacional de Técnica Aeroespacial (INTA) , Spain; M. Benito, A. Bahillo , CIEMAT, Spain	
10:20am		B2-1-MoM-2 Diamond Coatings for Cutting Tool Applications, Manfred Weigand, M. Woda, W. Puetz, M. Wegh, C. Schiffers, W. Koelker, O. Lemmer , CemeCon AG, Germany
10:40am	A1-1-MoM-3 Surface Coatings for Improved Corrosion Resistance of Steels in Heavy Liquid Metal Coolants, J. Kulczyk-Malecka , Manchester Metropolitan University, UK; N. Barron, S. Ortner , National Nuclear Laboratory Limited, UK; Peter Kelly , Manchester Metropolitan University, UK	INVITED: B2-1-MoM-3 Deposition of Hard Carbon Films by High Power Pulse Magnetron Sputtering (Virtual Presentation), Takayuki Ohta , Meijo University, Japan; A. Oda , Chiba Institute of Technology, Japan; H. Kousaka , Gifu University, Japan
11:00am	A1-1-MoM-4 Improving the Intermediate Temperature Oxidation Resistance of Refractory Metals and Mo-Based Systems, Katharina Beck, A. Ulrich , DECHEMA-Research Institute, Germany; F. Hinrichs, M. Heilmair , Karlsruhe Institut of Technology, Germany; M. Galetz , DECHEMA-Research Institute, Germany	
11:20am	A1-1-MoM-5 Arc-Evaporated $Ti_{1-x}Al_xN$ Coatings in Hot-Corrosion Settings, Oliver Ernst Hudak, A. Scheiber , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; L. Shang, O. Hunold, M. Arndt , Oerlikon Balzers, Oerlikon Surface Solutions AG, 9496 Balzers, Liechtenstein; S. Kolozsvari , Plansee Composite Materials GmbH, D-86983 Lechbruck am See, Germany; H. Riedl , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria	B2-1-MoM-5 Ti_3SiC_2-SiC Multilayer Thin Films Deposited by High Temperature Reactive Chemical Vapor Deposition, Jorge Sánchez Espinoza, F. Trabelsi, E. Blanquet, F. Mercier , SIMAP, Grenoble-INP, CNRS, France
11:40am	A1-1-MoM-6 High Temperature Oxidation Behavior of Hafnium Aluminum Diboride Thin Films, Samyukta Srivastav, D. Yun, C. Romnes, K. Canova, J. Abelson, J. Krogstad , University of Illinois at Urbana Champaign, USA	B2-1-MoM-6 Chemical Vapor Deposition of W(C,N): Process Parameter – Microstructure – Mechanical and Tribological Property Relationships, Katalin Böör , Uppsala University, Angstrom Laboratory, Sweden; L. von Fieandt, E. Lindahl , Sandvik Coromant, Sweden; M. Fallqvist , Karlstad University, Sweden; O. Bäcke , Chalmers University of Technology, Sweden; R. Lindblad , Uppsala University, Sweden; M. Halvarsson , Chalmers University of Technology, Sweden; M. Boman , Uppsala University, Sweden

Monday Morning, May 23, 2022

Hard Coatings and Vapor Deposition Technologies Room Town & Country D - Session B4-1-MoM Properties and Characterization of Hard Coatings and Surfaces I Moderators: Naureen Ghafoor , Linköping University, Sweden, Johan Nyman , Linköping Univ., IFM, Thin Film Physics Div., Sweden, Justinas Palisaitis , Linköping Univ., IFM, Thin Film Physics Div., Sweden		New Horizons in Coatings and Thin Films Room Town & Country B - Session F5-1-MoM In-Silico Design of Novel Materials by Quantum Mechanics and Classical Methods I Moderators: David Holec , Montanuniversität Leoben, Austria, Ivan G. Petrov , University of Illinois at Urbana-Champaign, USA
10:00am	INVITED: B4-1-MoM-1 Cathodic Arc Deposition of Chromium Based Coatings, Johan Nyman , <i>H. Högberg</i> , Linköping University, IFM, Thin Film Physics Division, Sweden	INVITED: F5-1-MoM-1 Competition between Plasticity and Brittleness in Refractory Ceramics, Davide Sangiovanni , <i>F. Tasnadi, I. Abrikosov</i> , Linköping University, Sweden
10:20am		
10:40am	B4-1-MoM-3 Grain Boundary Segregation Engineering in AlCrN Hard Coatings by CrN precipitation, Tobias Ziegelwanger , <i>N. Jaeger, C. Mitterer, R. Daniel, J. Keckes, M. Meindlhuber</i> , Montanuniversität Leoben, Austria	F5-1-MoM-3 Intriguing Deformation Mechanisms in Nanolayered Ceramics, Nikola Koutná , <i>TU Wien, Austria; L. Löfler, RWTH Aachen University, Germany; D. Holec, Montanuniversität Leoben, Austria; Z. Chen, Z. Zhang, Austrian Academy of Sciences, Austria; L. Hultman, Linkoping University, Sweden; P. Mayrhofer, TU Wien, Austria; D. Sangiovanni, Linkoping University, Sweden</i>
11:00am	B4-1-MoM-4 Influence of Deposition Pressure and Gas Mixture on the Microstructure, Phase Composition and Thermal Stability of Arc Evaporated TiSiN Coatings, Yvonne Moritz ¹ , <i>C. Saringer, Christian Doppler Laboratory for Advanced Coated Cutting Tools at the Department of Materials Science, Montanuniversität Leoben, Austria; M. Tkadletz, Department of Materials Science, Montanuniversität Leoben, Austria; C. Czettl, M. Pohler, Ceratizit Austria GmbH, Austria; N. Schalk, Christian Doppler Laboratory for Advanced Coated Cutting Tools at the Department of Materials Science, Montanuniversität Leoben, Austria</i>	F5-1-MoM-4 In Silico Testing of AlN/TiN Superlattices Using Molecular Dynamics, Lukas Löfler , <i>Montanuniversität Leoben, Austria; N. Koutna, TU Wien, Institute of Materials Science and Technology, Austria; Z. Chen, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; G. Nayak, Montanuniversität Leoben, Austria; O. Renk, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; L. Hultman, Linkoping University, Sweden; Z. Zhang, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; D. Sangiovanni, Linkoping University, Sweden; P. Mayrhofer, TU Wien, Institute of Materials Science and Technology, Austria; D. Holec, Montanuniversität Leoben, Austria</i>
11:20am	B4-1-MoM-5 Grain Boundary Segregation Alters the Fracture Mechanism of an AlCrN Thin Film, Michael Meindlhuber , <i>T. Ziegelwanger, Montanuniversität Leoben, Austria; J. Zalesak, Austrian Academy of Sciences, Leoben, Austria; M. Hans, RWTH Aachen University, Germany; L. Löfler, S. Spor, N. Jäger, Montanuniversität Leoben, Austria; A. Stark, Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Geesthacht, Germany; H. Hruby, voestalpine eifeler Vacotec GmbH, Düsseldorf, Germany; D. Holec, Montanuniversität Leoben, Austria; J. Schneider, RWTH Aachen University, Germany; C. Mitterer, R. Daniel, J. Keckes, Montanuniversität Leoben, Austria</i>	INVITED: F5-1-MoM-5 Advancing Computational Methods for Heterogeneous Material Systems, Susan Sinnott , <i>Penn State University, USA</i>
11:40am		
12:00pm		F5-1-MoM-7 On the Interplay between Stacking and Stability of Transition-Metal Diborides, David Holec , <i>T. Leiner, Montanuniversität Leoben, Austria; N. Koutná, P. Mayrhofer, TU Wien, Austria</i>

¹ Graduate Student Award Finalist

Monday Morning, May 23, 2022

Topical Symposia

Room Town & Country A - Session TS5-MoM

Sustainable Surface Solutions, Materials, Processes and Applications

Moderators: **Jyh-Wei Lee**, Ming Chi University of Technology, Taiwan , **Noora Manninen**, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein

10:00am	INVITED: TS5-MoM-1 Innovative Processes for High Performance Materials for Low Carbon Energy in a Circular Economy Approach, Frederic Schuster , CEA, France	
10:20am		
10:40am	TS5-MoM-3 Pathways for Sustainable Surface Solutions, J. Vetter, J. Becker, C. Sholz , Oerlikon Balzers Coating Germany GmbH, Germany; F. Rovere, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; A. Barth, Oerlikon Metco AG, Switzerland; M. Esselbach, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein Noora Manninen , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein	
11:00am	TS5-MoM-4 Selection of Laser Processing Parameters for Cleaning of Aluminum and FRP Sheets, Bartłomiej Przybyszewski, R. Kozera, A. Boczkowska, D. Kuczyńska, H. Garbacz, J. Pura , Warsaw University of Technology, Poland	

Monday Afternoon, May 23, 2022

Special Interest Talks

Room Town & Country A - Session SIT1-MoSIT

Special Interest Session I

Moderator: Samir Aouadi, University of North Texas, USA

1:00pm	INVITED: SIT1-MoSIT-1 From High Temperature Tribology to Ultrasensitive Biomolecular Detection: The Versatility of Transition Metal Dichalcogenide Thin Films, Christopher Muratore , Department of Chemical and Materials Engineering, University of Dayton, USA
1:20pm	

Monday Afternoon, May 23, 2022

Coatings for Biomedical and Healthcare Applications Room Pacific C - Session D1-2-MoA Surface Coatings and Surface Modifications in Biological Environments II Moderators: Mathew T. Mathew , University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA, Phaedra Silva-Bermudez , Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico		Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes Room Pacific D - Session H1-2-MoA Spatially-resolved and In-Situ Characterization of Thin Films and Engineered Surfaces II Moderators: Grégory Abadias, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France, Xavier Maeder , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland, Michael Tkadletz , Montanuniversität Leoben, Austria
1:40pm	INVITED: D1-2-MoA-1 Microstructural and Electrochemical Characterization of 3D Printed Biomedical Implants (Virtual Presentation), Mozart Neto , R. Pourzal, Rush University Medical Center, USA	H1-2-MoA-1 Decomposition of CrN Induced by Laser-Assisted Atom Probe Tomography, Helene Waldl , M. Schiester, Montanuniversität Leoben, Austria; M. Hans , RWTH Aachen University, Germany; D. Primetzhofer , Uppsala University, Sweden; N. Schalk , M. Tkadletz, Montanuniversität Leoben, Austria
2:00pm		H1-2-MoA-2 Watching Matter Move: Observing in-situ Silver Intercalation in Real Time, Falk Niefeld , NIST-Gaithersburg, USA; C. Dong , R. Maniyara , J. Robinson , Pennsylvania State University, USA; S. Pookpanratana , NIST-Gaithersburg, USA
2:20pm	D1-2-MoA-3 Diamond-like Carbon Coatings with Precise and Localized Silver Doping for High-Performance Biomedical Applications, Abdul Wasyl Zia , Northumbria University, UK; M. Panayiotidis , The Cyprus Institute of Neurology & Genetics, Nicosia, Cyprus; M. Birkett , Northumbria University, UK	H1-2-MoA-3 In-Situ Study of Plasma Surface Interaction Utilizing a Microplasma in a TEM, Holger Kersten , L. Hansen , N. Kohlmann , U. Schuermann , L. Kienle , Kiel University, Germany
2:40pm	D1-2-MoA-4 Corrosion Resistance and Biocompatibility Evaluation of TiZrNbTaMo High Entropy Alloy Coatings, S. Hou , Ming Chi University of Technology, China; B. Lou , Chang Gung University, Taiwan; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan	H1-2-MoA-4 Detection of Individual Nucleated Dislocation Slip Trace During <i>in Situ</i> TEM Tensile Testing by Advanced Image Analysis, Xiaoqing Li , A. Minor , University of California at Berkeley, USA
3:00pm	D1-2-MoA-5 Corrosion Risk Evaluation of Carbide-Derived Carbon (CDC) Surface Modification for Hip Implants, Yani Sun , University of Illinois at Chicago, USA; K. Kinnerk , City Colleges of Chicago, USA; K. Cheng , M. Mathew , UIC College of Medicine at Rockford, USA; M. McNallan , University of Illinois at Chicago, USA	H1-2-MoA-5 Effect of Film Thickness and Trace Width on Electrical Conductivity of Stretchable Composite Inks Under Monotonic and Cyclic Tensile Loading, Qiushi Li , O. Pierron , A. Antoniou , Georgia Institute of Technology, USA
3:20pm	D1-2-MoA-6 Enhancing the Mechanical and Biomedical Properties of Super Hard β -Ti ₃ Au Intermetallic Thin Films by Doping with Known Antimicrobial and Interstitial Elements, C. Cherian Lukose , Martin Birkett , Northumbria University, UK; M. Panagiotidis , The Cyprus Institute of Neurology & Genetics, Cyprus	INVITED: H1-2-MoA-6 Exploring Diffusion and Segregation Phenomena on the Nano Scale by <i>in Situ</i> Tem Heating Studies (Virtual Presentation), Yolita Eggeler , Laboratory for Electron Microscopy, KIT, Germany
3:40pm		
4:00pm		H1-2-MoA-8 <i>In-situ</i> Spectroscopic Ellipsometry Based Real-Time Growth Monitoring of Metal-Oxide Atomic Layer Deposition Processes, Ufuk Kilic , S. G. Kilic , M. Hilfiker , A. Mock , D. Sekora , University of Nebraska-Lincoln, USA; G. Melendez , Polytechnic University of Puerto Rico; N. Ianno , C. Argyropoulos , E. Schubert , M. Schubert , University of Nebraska-Lincoln, USA

Monday Afternoon, May 23, 2022

	Surface Engineering - Applied Research and Industrial Applications Room Pacific E - Session G4-MoA Hybrid Systems, Processes and Coatings Moderators: Satish Dixit, Plasma Technology Inc., USA, Sang-Yul Lee, Korea Aerospace University, Korea (Republic of)	Topical Symposia Room Town & Country A - Session TS6-1-MoA A Session to Acknowledge the Contributions of Joe Greene to the ASED, ICMCTF, AVS, and IUVSTA I Moderators: Michael Stüber, Karlsruhe Institute of Technology, Germany, Samir Aouadi, University of North Texas, USA
1:40pm	G4-MoA-1 Modelling Layered Materials Systems Using the Einstein-Hilbert Action, <i>Frank Papa</i> , GP plasma, USA; <i>T. vom Braucke</i> , GP plasma, World Formula Apps, Canada; <i>N. Bierwisch</i> , Saxonian Institute of Surface Mechanics SIO, Germany; <i>N. Schwarzer</i> , Saxonian Institute of Surface Mechanics SIO, World Formula Apps, Germany	INVITED: TS6-1-MoA-1 Low-Temperature Growth of Epitaxial and Polycrystalline Thin Films Under High-Fluxes of Low-Energy Gas Ions, <i>Ivan G. Petrov</i> , Linköping University, Sweden, University of Illinois at Urbana-Champaign, National Taiwan University of Science and Technology, Taiwan; <i>J. Sundgren</i> , Swedish Association of Engineering Industries, Sweden; <i>L. Hultman</i> , Linköping University, Sweden; <i>J. Greene</i> , Linköping University, Sweden, University of Illinois at Urbana-Champaign, National Taiwan University of Science and Technology, Taiwan
2:00pm	G4-MoA-2 Control of Phase Transition of VO ₂ Films and VO ₂ -based Terahertz and Infrared Devices, <i>Heungssoo Kim</i> , Naval Research Laboratory, USA; <i>D. Lahneman</i> , National Research Council Fellow, USA; <i>R. Auyeung</i> , <i>K. Charipar</i> , <i>C. Rohde</i> , <i>A. Pique</i> , Naval Research Laboratory, USA	
2:20pm	INVITED: G4-MoA-3 Hybrid HIPIMS and Controlled Pulsed Arc for Deposition of Hard Coatings, <i>Jiří Vyskočil</i> , <i>P. Mareš</i> , HVM Plasma, Czechia; <i>Z. Hubička</i> , <i>M. Čada</i> , Institute of Physics CAS, Czechia	INVITED: TS6-1-MoA-3 Advanced Materials, A Key for the Green and Digital Transformations and for Industrial Competitiveness (Virtual Presentation), <i>Jan-Eric Sundgren</i> , Swedish Association of Engineering Industries, Sweden
2:40pm		
3:00pm		INVITED: TS6-1-MoA-5 Industrial Magnetron Sputtering: Interfaces & More, <i>Wolf-Dieter Münz</i> , Consultant, Austria
3:20pm		
3:40pm		INVITED: TS6-1-MoA-7 Applying Thin Film Synthesis and Characterization Methods to Improving Photovoltaics, <i>Angus Rockett</i> , Colorado School of Mines, USA
4:00pm		
4:20pm		INVITED: TS6-1-MoA-9 May the Interatomic Forces be with You; Self-Organized Nanostructure Design in Functional Nitride Alloy Films (Virtual Presentation), <i>Lars Hultman</i> , <i>G. Greczynski</i> , Linköping University, Sweden; <i>I. Petrov</i> , <i>J. Greene</i> , Linköping University, Sweden; University of Illinois at Urbana-Champaign, USA; National Taiwan University of Science and Technology, Taiwan
4:40pm		
5:00pm		INVITED: TS6-1-MoA-11 From Thin Films to Solid Oxide Fuel Cells, <i>Scott Barnett</i> , Northwestern University, USA
5:20pm		

Monday Afternoon, May 23, 2022

Room Town & Country C	
1:40pm	B2-2-MoA-1 Synthesis of Rare Earth Silicate Coatings by CVD, <i>Arthur Derrien, L. Lager, J. Roger, J. Danet, S. Jacques</i> , LCTS, CNRS, Univ. Bordeaux, France
2:00pm	B2-2-MoA-2 Doped Alumina Coatings, <i>Zhenyu Liu</i> , Latrobe, USA
2:20pm	B2-2-MoA-3 Stress Control of AlN-based Multilayer Coatings with Amorphous Intermediate Layers, <i>V. Tabouret, R. Reboud, A. Crisci, Frederic Mercier</i> , SIMAP, Grenoble-INP, CNRS, France
2:40pm	B2-2-MoA-4 Circumventing Thermodynamic Constraints – A Selective Kinetic Growth of Low Thermal Expansion Al_2TiO_5 -coatings by Chemical Vapour Deposition, <i>Sebastian Öhman</i> , Uppsala University, Angstrom Laboratory, Sweden
3:00pm	INVITED: B2-2-MoA-5 Atomic Layer Deposition of BN Based on Polymer Derived Ceramics Route: Fabrication of Functional and Protective Coating, <i>Catherine Marichy, W. Hao, A. Hossain, C. Journet</i> , University Lyon, France
3:20pm	
3:40pm	F5-2-MoA-7 Theoretical Investigation of Sluggish Diffusion in Nitride Films of High-Entropy Alloys, <i>Ganesh Kumar Nayak</i> , Montanuniversität Leoben, Austria; <i>A. Kretschmer, P. Mayrhofer</i> , TU Wien, Austria; <i>D. Holec</i> , Montanuniversität Leoben, Austria
4:00pm	F5-2-MoA-8 Simulation of Transport and Mechanical Properties of TiSiN:Ag Self-Lubricating Coatings With Machine Learned Force Fields, <i>Veniero Lenzi</i> , University of Minho, Portugal; <i>F. Fernandes</i> , University of Coimbra, Portugal; <i>L. Marques</i> , University of Minho, Portugal
4:20pm	INVITED: F5-2-MoA-9 Machine Learning Assisted Ab Initio Thermodynamics of Novel Materials, <i>Prashanth Srinivasan</i> , University of Stuttgart, Germany; <i>F. Körmann</i> , Max-Planck Institut für Eisenforschung, Germany; <i>B. Grabowski</i> , University of Stuttgart, Germany
4:40pm	
5:00pm	INVITED: F5-2-MoA-11 Materials Design Principles of Amorphous Cathode Coatings for Lithium-ion Battery Applications, <i>Jianli Cheng, K. Persson</i> , Lawrence Berkeley National Laboratory (LBNL), USA
5:20pm	

Monday Afternoon, May 23, 2022

Room Town & Country D	
1:40pm	INVITED: B4-2-MoA-1 Microstructural Simulations on Thin Films, <i>Vinzenz Guski, W. Verestek, S. Schmauder</i> , Universität Stuttgart, Germany
2:00pm	Hard Coatings and Vapor Deposition Technologies Session B4-2-MoA Properties and Characterization of Hard Coatings and Surfaces II Moderators: Naureen Ghafoor , Linköping University, Sweden, Johan Nyman , Linköping Univ., IFM, Thin Film Physics Div., Sweden, Justinas Palisaitis , Linköping Univ., IFM, Thin Film Physics Div., Sweden
2:20pm	B4-2-MoA-3 Ab Initio Supported the Development of Tin/Mon Superlattice Thin Films With Improved Hardness and Toughness, <i>Zecui Gao, J. Buchinger, N. Koutná, T. Wojcik, R. Hahn, P. Mayrhofer</i> , TU Wien, Institute of Materials Science and Technology, Austria
2:40pm	B4-2-MoA-4 Effect of Substrate Bias on the Residual Stress Depth Profile and the Mechanical Properties of Ti-Al-N Coatings Prepared by Cathodic Arc Deposition, <i>Luis Varela, K. Tsoutsas, A. Milletic, E. Bousser</i> , Polytechnique Montréal, Canada; <i>J. Mendez</i> , MDS Coating Technologies Corporation, Canada; <i>J. Klemberg-Sapieha, L. Martinu</i> , Polytechnique Montréal, Canada
3:00pm	A1-2-MoA-5 Influence of Dispersed Nano-Y ₂ O ₃ Particles in NiAlY and NiCrAlY MMC Coatings on Microstructure, Oxidation and Wear, <i>Christoph Grimme, R. Kupec, F. Schulze, M. Galetz</i> , DECHEMA-Forschungsinstitut, Germany
3:20pm	A1-2-MoA-6 Reactive Magnetron Sputtering of Al-O-F for High-Temperature Oxidation Protection of γ-TiAl via the Halogen Effect, <i>Stephen Brown, F. Bergeron</i> , Polytechnique Montréal, Canada; <i>M. Cavarroc</i> , SAFRAN Tech, France; <i>S. Knittel</i> , SAFRAN Aircraft Engines, France; <i>L. Martinu, J. Klemberg-Sapieha</i> , Polytechnique Montréal, Canada
3:40pm	INVITED: A1-2-MoA-7 Development of a New Coating Against High-Temperature Erosion-Corrosion in Fluidized Bed Biomass Boiler Condition, <i>Suzue Yoneda, S. Tanaka</i> , Hokkaido University, Japan; <i>Y. Miyakoshi</i> , Hokkaido Research Organization, Japan; <i>T. Kogin</i> , Dai-ichi High Frequency Co., Ltd., Japan; <i>E. Ishikawa</i> , EBARA Environmental Plant Co., Ltd., Japan; <i>M. Noguchi</i> , EBARA Corporation, Japan; <i>S. Hayashi</i> , Hokkaido University, Japan
4:00pm	
4:20pm	A1-2-MoA-9 Introduction of Methodologies from Artificial Intelligence Into Slurry Coating Development, <i>Vladislav Kolarik, M. Juez Lorenzo, W. Becker</i> , Fraunhofer Institute for Chemical Technology ICT, Germany
4:40pm	A1-2-MoA-10 Slurry Coatings for Heat Exchangers of Particle Receivers of Solar Towers, <i>Michael Kerbstadt, A. Ulrich, M. Galetz</i> , DECHEMA-Forschungsinstitut, Germany
5:00pm	A1-2-MoA-11 Low Emissivity Thin Films Coatings to Reduce Thermal Emittance of SSA for Evacuated Solar Collectors, <i>Antonio Caldarelli, C. D'Alessandro, D. De Maio, D. De Luca, E. Gaudino, M. Musto, E. Di Gennaro</i> , University of Napoli "Federico II", Italy; <i>R. Russo</i> , National Research Council of Italy, Napoli Unit, Institute of Applied Sciences and Intelligent Systems, Italy

Tuesday Morning, May 24, 2022

Coatings for Biomedical and Healthcare Applications Room Pacific C - Session D2-TuM Medical Devices: Bio-Tribo-Corrosion, Diagnostics, 3D Printing Moderators: Steve Bull, Newcastle University, UK, Hamdy Ibrahim, University of Tennessee at Chattanooga, USA, Margaret Stack, University of Strathclyde, UK		Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes Room Pacific D - Session H2-1-TuM Advanced Mechanical Testing of Surfaces, Thin Films, Coatings and Small Volumes I Moderators: James Gibson, RWTH Aachen University, Germany, Olivier Pierron, Georgia Institute of Technology, USA
8:00am	D2-TuM-1 Characterization of Hydroxyapatite Coatings Produced by Pulsed-laser Deposition on Ti _x Al _y V Substrates Fabricated by Electron Beam Melting, <i>Octavio Andrés González-Estrada, R. Ospina, A. Pertuz, Universidad Industrial de Santander, Colombia</i>	INVITED: H2-1-TuM-1 Reflectance Anisotropy Spectroscopy and Microscopy for the Investigation of Ultrathin Films With Micron Resolution, <i>Ralph Spolenak, ETH Zurich, Switzerland</i>
8:20am	D2-TuM-2 Preclinical in Vitro and in Vivo Assessment of High-Strength and Corrosion-Controlled Magnesium-Based Bone Implants, <i>C. Billings, University of Tennessee Knoxville, USA; M. Abdalla, University of Illinois - Chicago, USA; D. Anderson, University of Tennessee Knoxville, USA; Hamdy Ibrahim, University of Tennessee at Chattanooga, USA</i>	
8:40am	INVITED: D2-TuM-3 Understanding Tribological Contact in Biomedical Applications; The Role of Surface Film Formation and Its Correlation With Friction and Wear, <i>Mark Rainforth, The University of Sheffield, UK; R. Namus, J. Qi, J. Nutter, University of Sheffield, UK</i>	H2-1-TuM-3 Combinatorial Mechanical Microscopy Using Correlated Nanoindentation Mapping and EDX, <i>Jeffrey M. Wheeler, FemtoTools AG, Switzerland</i>
9:00am		H2-1-TuM-4 Progress in the Development of High Strain Rate Nanoindentation Experiments, <i>Warren Oliver, KLA Corporation, USA; C. Walker, B. Hackett, Texas A&M University, Department of Materials Science & Engineering, USA; P. Sudharshan, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI) , India; G. Pharr, Texas A&M University, USA</i>
9:20am	D2-TuM-5 Corrosion Resistance of Cerium Oxynitride Thin Films for Use in Implants and Prothesis, <i>G. Numpaque Rojas, Brian Felipe Mendez Bazurto, G. Cubillos Gonzalez, Universidad Nacional de Colombia</i>	H2-1-TuM-5 Testing the Adhesion of a Sintered Ag Film on a Cu Substrate Using Laser Shocks, <i>Xavier Milhet, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; T. de Resseguer, institut pprime - CNRS - ENSMA - Université de Poitiers, France; A. Sghuri, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; L. Signor, institut pprime - CNRS - ENSMA - Université de Poitiers, France</i>
9:40am	D2-TuM-6 Porous Ti Under Tribocorrosion Solicitations: Some Positive Feedback and Some Scientific Benefits, <i>A. Gomes Costa, CMEMS-Minho University, Portugal; F. Viana, FEUP, Portugal; L. Rocha, DTX, Portugal; F. Toptan, DMSE, İYTE, Turkey; Jean Geringer, Mines Saint-Etienne, France</i>	H2-1-TuM-6 Transfer Learning in Characterization of Nanoindentation Induced Acoustic Events, <i>Antanas Daugela, Nanometronix LLC, USA; J. Daugela, Johns Hopkins University, USA</i>
10:00am		H2-1-TuM-7 Nanoindentation Testing to Measure Surface Free Energy in Thin Films and Engineered Surfaces, <i>M. Sebastiani, Università degli studi Roma Tre, Italy; P. Phani, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), India; Edoardo M. Rossi, Università degli studi Roma Tre, Italy; R. Guillemet, Thales Research & Technology, France; W. Oliver, Nanomechanics Inc., KLA Corporation, USA</i>

Tuesday Morning, May 24, 2022

Coatings for Use at High Temperatures Room Pacific E - Session A1-3-TuM Coatings to Resist High-temperature Oxidation, Corrosion, and Fouling III Moderators: Gustavo García-Martín , REP-Energy Solutions, Spain, Justyna Kulczyk-Malecka , Manchester Metropolitan Univ., UK		Topical Symposia Room Town & Country A - Session TS6-2-TuM A Session to Acknowledge the Contributions of Joe Greene to the ASED, ICMCTF, AVS, and IUVSTA II Moderator: Scott Barnett , Northwestern University, USA
8:00am		INVITED: TS6-2-TuM-1 Metal-Ion-Controlled Thin Film Growth: What Have We Learnt During the Last Decade?, Grzegorz (Greg) Greczynski , Linköping Univ., IFM, Thin Film Physics Div., Sweden; I. Petrov, J. Greene , University of Illinois at Urbana Champaign, USA; L. Hultman , Linköping University, IFM, Thin Film Physics Division, Sweden
8:20am		
8:40am		INVITED: TS6-2-TuM-3 Predictive Kinetics-based Epitaxial Film Growth Modeling for the SiGe, Si:B and SiGe:B Systems, Glenn Glass , Intel Corporation, USA
9:00am	A1-3-TuM-4 Protective Sol-Gel Coatings for Steels Against Corrosion of Molten Carbonates for Concentrated Solar Power Plants, Gustavo García Martín , Universidad Complutense de Madrid, Spain; T. de Miguel Gamo , Universidad Complutense de Madrid , Spain; I. Lasanta Carrasco, M. Lambrecht, F. Pérez Trujillo, N. Garcia, C. Gómez de Castro , Universidad Complutense de Madrid, Spain	
9:20am	A1-3-TuM-5 Experimental Study on Steam Oxidation Resistance at 600°C of Inconel 625 Coatings Deposited by HVOF and Laser Cladding, Francisco Javier Pérez Trujillo, G. García Martín, A. Illana Sánchez, T. De Miguel Gamo , Universidad Complutense de Madrid, Spain; F. Gonçalves , M. Sousa , Tecnologia e Engenharia de Materiais , Portugal	INVITED: TS6-2-TuM-5 Growth Kinetics of Spontaneous Superlattices, and Single Wall Carbon Nanotubes Using Gas Phase Precursors, Yonglim Foo , Singapore Institute of Technology, Singapore
9:40am	A1-3-TuM-6 Oxidation Kinetics of γ -TiAl Based Coating Materials, Paul Mayrhofer, S. Kagerer, O. Hudak , TU Wien, Austria; M. Schloffer , MTU Aero Engines, Muenchen, Germany; H. Riedl , TU Wien, Austria	
10:00am	A1-3-TuM-7 The Impact of Aluminide Slurry Coatings on the Oxidation and Fatigue Resistance of High-Strength Ni-Based Valve Alloys, Sebastien Dryepondt, R. Pillai, B. Armstrong, M. Lance, G. Muralidharan , ORNL, USA	INVITED: TS6-2-TuM-7 Engineering of Soft Materials for Stretchable Electronics, Nae-Eung Lee , Sungkyunkwan University, Korea (Republic of)
10:20am		

Tuesday Morning, May 24, 2022

Room Town & Country B	
8:00am	Tribology and Mechanical Behavior of Coatings and Engineered Surfaces Session E3-TuM Coatings for Automotive and Aerospace Applications Moderators: Nazlim Bagcivan , Schaeffler Technologies GmbH & Co. KG, Germany, Rainer Cremer , KCS Europe GmbH, Germany, Philipp Grützmacher , Institute of Engineering Design and Product Development , Austria
8:20am	
8:40am	E3-TuM-3 Thermomechanical Stability of Hard DLC Coatings Produced by HiPIMS-DOMS, João Carlos Oliveira , University of Coimbra, Portugal; A. Vahidi , University of Coimbra, Iran (Islamic Republic of); F. Ferreira, R. Serra, A. Cavaleiro , University of Coimbra, Portugal
9:00am	E3-TuM-4 Static and Dynamic Friction Assessment Using Novel High Temperature Tribometer, Marwan Azzi , Polytechnique Montreal, Canada; E. Bitar-Nehme , Tricomat inc, Canada; J. Sapieha , Polytechnique Montreal, Canada; I. Martinu , Polytechnique Montréal, Canada
9:20am	INVITED: E3-TuM-5 Study of the a-C:H Coating Wear Behaviour in Boundary Lubricated Tribological Contacts Using Raman-Based Profilometry (Virtual Presentation), Ardian Morina , University of Leeds, UK; N. Xu , University of Leeds, UK , UK
9:40am	
10:00am	E3-TuM-7 Erosion Resistance of TiAlN Coatings for Aerospace Applications, Zeliha Idil Kara, S. Ozerinc , Middle East Technical University, Turkey

Tuesday Morning, May 24, 2022

Room Town & Country C		
8:00am	New Horizons in Coatings and Thin Films Session F2-1-TuM High Entropy and Other Multi-principal-element Materials I Moderator: Erik Lewin, Uppsala University, Sweden	
8:20am	F2-1-TuM-2 Elaboration and Characterization of High Entropy Nitride Al-Ti-Zr-Ta-Hf (-N) Deposited by Reactive Magnetron Sputtering for High Temperature Applications, <i>Djallel Eddine TOUAIBIA, M. ELGARAH, S. ACHACHE, LASMIS, France; A. MICHAU, F. Schuster, Commissariat à l'Energie Atomique et aux énergies alternatives (CEA) Saclay, France; F. SANCHETTE, University of Technology Troyes (UTT), France</i>	
8:40am	F2-1-TuM-3 Strain-Stabilized Al-Containing High-Entropy Sublattice Nitrides, <i>Andreas Kretschmer¹, B. Hajas, TU Wien, Institute of Materials Science and Technology, Austria; D. Holec, Montanuniversität Leoben, Austria; K. Yalamanchili, H. Rudigier, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; M. Hans, J. Schneider, RWTH Aachen University, Germany; P. Mayrhofer, TU Wien, Institute of Materials Science and Technology, Austria</i>	
9:00am	F2-1-TuM-4 Structural and Mechanical Properties Investigation of a New TiTaZrHfW(-N) Refractory High Entropy Films Deposited by Reactive Magnetron Sputtering, <i>Abdelhakim Bouissil, S. Achache, F. Sanquette, M. El Garah, LASMIS, Antenne de Nogent, Université de Technologie de Troyes, France</i>	
9:20am		
9:40am	G1-TuM-6 Photons meet Plasma – Adding Value to your Al, Mg and Ti Components, <i>Anna Buling, ELB Elokalwerk Ludwigsburg GmbH, Germany; J. Zerrer, ELB Elokalwerk Ludwigsburg, Germany</i>	Surface Engineering - Applied Research and Industrial Applications Session G1-TuM Advances in Application Driven Research: New Methods, Materials, and Equipment for PVD, CVD, and PECVD Processes Moderators: Satish Dixit, Plasma Technology Inc., USA, Martin Engels, IonBond Inc., USA
10:00am	G1-TuM-7 The Effect of Coating Conditions on the Life of PVD Coated Steel Rods Immersed in a Molten Aluminum Die Casting Alloy, <i>Stephen Midson, N. Delfino de Campos Neto, W. May, A. Korenyi-Both, M. Kaufman, Colorado School of Mines, USA</i>	
10:20am	INVITED: G1-TuM-8 Carbon-Based Surface Solutions for High Performance Forming Tools - A Journey from Material Research to Industrial Solutions, <i>Vishal Khetan, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein, Switzerland</i>	
10:40am		

¹ Graduate Student Award Finalist

Tuesday Morning, May 24, 2022

Room Town & Country D	
8:00am	INVITED: B4-3-TuM-1 Thermal Stability of Nanotwinned Metallic Thin Films (Virtual Presentation), <i>Fan-Yi Ouyang</i> , National Tsing Hua University, Taiwan
8:20am	
8:40am	B4-3-TuM-3 Phase Stability and Mechanical Characteristics of Sputtering (Mo, Hf)N Coatings, <i>Shu-Yu Hsu, Y. Chang</i> , National United University, Taiwan; <i>F. Wu</i> , Dept. of Materials Science and Engineering, National United University, Taiwan
9:00am	B4-3-TuM-4 Evidencing Different Dislocation Types in Magnetron-sputtered Epitaxial TiN Thin Films on MgO, <i>Janelia Salamanca, D. Sangiovanni</i> , Linköping University, IFM, Sweden; <i>L. Johnson, I. Schramm, K. Calamba</i> , Sandvik Coromant, Sweden; <i>T. Hsu</i> , Linköping University, IFM, Sweden; <i>B. Bakheit</i> , Linköping University, IFM, Thin Film Physics Division, Sweden; <i>R. Boyd, F. Tasnadi, I. Abrikosov, L. Rogström, M. Odén</i> , Linköping University, IFM, Sweden
9:20am	B4-3-TuM-5 TiN/Zr _{0.34} Al _{0.66} N Multilayer Films: Growth Temperature Dependence on Structure and Mechanical Properties, <i>Marcus Lorentzon, N. Ghafoor, J. Birch</i> , Linköping Univ., IFM, Thin Film Physics Div., Sweden
9:40am	B4-3-TuM-6 Physicochemical Properties of Single Phased Tantalum Nitride Thin Films, <i>Aurélie Achille, A. Poulon-Quintin, F. Mauvy, D. Michau, S. Fourcade</i> , CNRS, Univ. Bordeaux, ICMCB, France; <i>C. Labrugere</i> , CNRS, Univ. Bordeaux, PLACAMAT, France; <i>M. Cavarroc</i> , SAFRAN Paris-Saclay – SAFRAN Tech, France

Tuesday Morning, May 24, 2022

Exhibitors Keynote Lecture

Room Town & Country A - Session EX-TuM

Exhibition Keynote Lecture

Moderator:

Grzegorz (Greg) Greczynski, Linköping University, Sweden

11:00am	<p>INVITED: EX-TuM-1 Fabrication and Characterization of Industrially Important Films and Coatings, <i>Vincent S. Smentkowski</i>, GE Research, USA</p>	
11:20am		

Tuesday Afternoon, May 24, 2022

Room Pacific C	
1:40pm	INVITED: TS2-1-TuA-1 in Situ Observation of Strain Transfer and Crack Formation in Evaporated and Printed Thin Films and Devices on Compliant Substrates, <i>Patric A. Gruber, N. Misra, T. Haas, S. Yi, B. Kim</i> , Karlsruhe Institute of Technology (KIT), Germany
2:00pm	
2:20pm	TS2-1-TuA-3 Electrical Resistance During Cyclic Loading of Conductive Coatings – What Information is Hidden in the Data?, <i>David Gebhart, M. Cordill</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria
2:40pm	TS2-1-TuA-4 Plasma Surface Activation of Epoxy Painted Polymer Composites to Enhance Adhesion of PVD Coatings, <i>Nicolas Ranger</i> , Oerlikon Balzers/IRCER, France; <i>C. Jaoul, P. Tristant</i> , IRCER, France; <i>T. Maerten</i> , Oerlikon Balzers, France; <i>S. Belvezé</i> , Oerlikon Balzers , France; <i>S. Guimond</i> , Oerlikon Balzers, Liechtenstein; <i>M. Cavarroc</i> , Safran Tech, France
3:00pm	TS2-1-TuA-5 MOKE-XRD Experiment for the Study of Magnetomechanical Properties of Thin Films Deposited on Stretchable Substrates, <i>H. Mahmoud</i> , Université Sorbonne Paris, Université de Poitiers—CNRS, France; <i>Damien Faurie</i> , Université Sorbonne Paris, France; <i>P. Godard</i> , Université de Poitiers—CNRS, France; <i>D. Thiaudière</i> , Soleil Synchrotron, France; <i>P. Renault</i> , Université de Poitiers—CNRS, France; <i>F. Zighem</i> , Université Sorbonne Paris, France
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
3:40pm	
4:00pm	TS2-1-TuA-8 Nanoscale Deformation Mechanisms in Thin Film Metallic Glasses Explored by in-Situ SEM With Digital Image Correlation, <i>Oleksandr Glushko, C. Mitterer, J. Eckert</i> , Montanuniversität Leoben, Austria

Tuesday Afternoon, May 24, 2022

Room Pacific D	
1:40pm	D3-TuA-1 Enhanced Mechanical Properties and Microbiological Behavior of a Ag-C:H Coating Produced by Reactive pDCMS, <i>N. Fukumasu, Pâmella Esteves, V. Malaquias</i> , University of São Paulo, Brazil; <i>E. Prados</i> , Federal University of ABC, Brazil; <i>M. Hirata, A. Tschiptschin, I. Machado, R. Souza</i> , University of São Paulo, Brazil
2:00pm	D3-TuA-2 Coating of Titanium Surfaces with Silver-Chitosan using Silane Linkers, <i>Emily Coleman, E. Abuhussein, M. Edwards, J. Bumgardner, J. Jennings</i> , University of Memphis, USA
2:20pm	INVITED: H3-TuA-3 Stabilized Nanocrystalline Thin Films for Enhanced Thermal, Radiation, and Mechanical Performance, <i>Brad Boyce</i> , Sandia National Laboratories, USA
2:40pm	
3:00pm	H3-TuA-5 Explaining How <i>H/E</i> Influences Coating System Wear Under Harsh Conditions - Insights from Elevated Temperature Nanoindentation, Scratch and Impact Tests, <i>Ben Beake</i> , Micro Materials Ltd, UK
3:20pm	
3:40pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
4:00pm	H3-TuA-8 In-Sem Micromechanical Testing Up to 1000 °C of High Entropy Transition Metal Nitride Thin Films Alloyed With Al, <i>A. Pshyk</i> , Linköping University, IFM, Sweden; Thomas Edwards , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <i>B. Bakht</i> , Linköping University, IFM, Sweden; <i>M. Jain</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <i>P. Küttel</i> , Alemanis AG, Switzerland; <i>G. Greczynski, L. Hultmann</i> , Linköping University, IFM, Sweden; <i>J. Michler</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland
4:20pm	H3-TuA-9 Custom Cryo-Nanoindenter for in-Situ Investigations of the Brittle-to-Ductile Transition in a Scanning Electron Microscope, <i>Hendrik Holz, S. Gabel, B. Merle</i> , University Erlangen-Nuernberg, Germany
4:40pm	H3-TuA-10 Development of a Novel High Strain Rate Nanoindenter for Small-Scale Mechanical Characterization Over a Wide Strain Rate Range, <i>Stefan Zeiler, H. Holz, B. Merle</i> , University Erlangen-Nuernberg, Germany

Tuesday Afternoon, May 24, 2022

Surface Engineering - Applied Research and Industrial Applications Room Pacific E - Session G3-TuA Innovative Surface Engineering for Advanced Cutting and Forming Tool Applications Moderators: Stepan Kyrsta, Oerlikon Luxembourg, Christoph Schiffers, CemeCon AG, Germany		Topical Symposia Room Town & Country A - Session TS6-3-TuA A Session to Acknowledge the Contributions of Joe Greene to the ASED, ICMCTF, AVS, and IUVSTA III Moderators: Ivan G. Petrov, University of Illinois at Urbana-Champaign, USA, Angus Rockett, University of Illinois at Urbana-Champaign, USA		
1:40pm	G3-TuA-1 A New Tool in Coating Design: Managing Intrinsic Stresses in HiPIMS, <i>Christoph Schiffers, T. Leyendecker, W. Kölker, S. Bolz, B. Mesic, CemeCon AG, Germany</i>			
2:00pm	G3-TuA-2 Self-lubricating CrAlMoN High Performance Tool Coatings for Machining of TiAl6V4, <i>K. Bobzin, C. Kalscheuer, M. Carlet, Nina Stachowski, Surface Engineering Institute - RWTH Aachen University, Germany; W. Hintze, C. Möller, P. Ploog, Institute of Production Management and Technology - Hamburg University of Technology (TUHH), Germany</i>			
2:20pm	INVITED: G3-TuA-3 Coating Design for Components for Extreme Applications, <i>Ricardo Alexandre, TEandM, Portugal</i>			
2:40pm				
3:00pm	G3-TuA-5 The Use of Coatings to Minimize Soldering in Aluminum High Pressure Die Casting, <i>Nelson Delfino de Campos Neto, A. L. Korenyi-Both, Colorado School of Mines, USA; C. Vian, Stellantis, USA; S. P. Midson, M. J. Kaufman, Colorado School of Mines, USA</i>			
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL			
3:40pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL			
4:00pm	INVITED: G3-TuA-8 Bringing Together Research, Job Coating and Market Needs, <i>Carles Colomina, Flubetech, Spain</i>			
4:20pm				
4:40pm	G3-TuA-10 CrON-based Coatings for Plastic Processing Applications, <i>Anders O. Eriksson, T. Vermland, D. Fopp-Spori, J. Tischhauser, Oerlikon Balzers, Oerlikon Surface Solution AG, Liechtenstein</i>			
5:00pm				
INVITED: TS6-3-TuA-1 Perspective on Thin-Film Metallic Glasses: Road to Industrial Production (Virtual Presentation), <i>Jinn P. Chu, National Taiwan University of Science and Technology, Taiwan</i>				
INVITED: TS6-3-TuA-3 Hollow Cathode Discharges: The Influence of the Electrode Material and Cathode Geometry, <i>Stephen Muhl, IIM UNAM, CDMX, Mexico; R. Sangines, CNyN (CONACYT) UNAM, Ensenada, BC, Mexico; J. Cruz, CNyN UNAM, Ensenada, BC, Mexico</i>				
INVITED: TS6-3-TuA-8 Ti-Nb Based Alloy Coatings Produced by Magnetron Co-sputtering, <i>D. Gonzalez, Universidade Federal de Sao Carlos, Brazil; V. Amigo-Borras, Universitat Politècnica de València UPV, Spain; V. Mastelaro, Universidade de Sao Paulo, Brazil; Pedro Nascente, Universidade Federal de Sao Carlos, Brazil</i>				
INVITED: TS6-3-TuA-10 Bill Sproul Award and Honorary ICMCTF Lecture: Modelling Reactive Sputtering: Back to the Future, <i>Diederik Depla¹, J. Van Bever, K. Strijckmans, Ghent University, Belgium</i>				

¹ Bill Sproul Awardee

Tuesday Afternoon, May 24, 2022

Tribology and Mechanical Behavior of Coatings and Engineered Surfaces Room Town & Country B - Session E1-1-TuA Friction, Wear, Lubrication Effects, and Modeling I Moderators: Noora Manninen, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein, Andreas Rosenkranz, Andreas Rosenkranz, Universidad de Chile		New Horizons in Coatings and Thin Films Room Town & Country C - Session F2-2-TuA High Entropy and Other Multi-principal-element Materials II Moderator: Erik Lewin, Uppsala University, Sweden
1:40pm	INVITED: E1-1-TuA-1 2D Transition Metal Carbide MXenes: Their Synthesis, Tunable Compositions and Mechanical Properties, <i>Babak Anasori</i> , Indiana University-Purdue University , USA; <i>B. Wyatt</i> , Indiana University-Purdue University, USA	
2:00pm		F2-2-TuA-2 Structure and Properties of Refractory MoNbTaW+X (X = Ti,V,Cr,Mn,Hf) High Entropy Alloy Thin Films Deposited by HiPIMS, <i>G. Gruber</i> , Montanuniversität Leoben, Austria; <i>A. Lassnig, S. Zak, C. Gammer, M. Cordill</i> , Austrian Academy of Sciences, Austria; <i>Robert Franz</i> , Montanuniversität Leoben, Austria
2:20pm	INVITED: E1-1-TuA-3 Grain Boundary Sliding and Low Friction in BCC Metals, <i>Michael Chandross</i> , Sandia National Laboratories, USA; <i>A. Hinkle</i> , CCDC & CBC, Aberdeen Proving Ground, USA; <i>M. Jones, P. Lu</i> , Sandia National Laboratories, USA; <i>N. Argibay</i> , Ames Laboratory, USA	F2-2-TuA-3 Effect of Rare-earth yttrium Addition on Microstructure and Thermal Stability of Refractory TiTaZrHfW High Entropy Film, <i>Mohamed EL GARAH</i> , University of Technology of Troyes , France; <i>L. PATOUT, A. CHARAI</i> , Aix Marseille University , France; <i>F. SANCHETTE</i> , University of Technology of Troyes , France
2:40pm		F2-2-TuA-4 Investigation of Strain Stabilization in Aluminum-Based High Entropy Sublattice Nitride Films, <i>Balint Hajas, A. Kretschmer, A. Kirnbauer, P. Mayrhofer</i> , Institute of Materials Science and Technology, TU Wien University, Vienna, Austria
3:00pm	E1-1-TuA-5 Evaluation of Tribocoatings in Low Viscosity Fuels, <i>Maddox Dockins, A. Ayyagari, S. Srivilliputhur</i> , University of North Texas, USA; <i>S. Berkebile</i> , US DEVCOM Army Research Laboratory, USA; <i>D. Berman, A. Voevodin, S. Aouadi</i> , University of North Texas, USA	
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
3:40pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
4:00pm	E1-1-TuA-8 Phototribology: Control of Friction by Light, <i>B. Perotti</i> , UCS, Brazil; <i>A. Cammarata</i> , Czech Technical University in Prague, Czech Republic; <i>F. Cemin</i> , Université Paris-Saclay and UNICAMP, Brazil; <i>S. Sales de Mello</i> , UCS and UNICAMP, Brazil; <i>L. Leidens</i> , UCS, Brazil; <i>F. Echeverrigaray</i> , UCS and UNICAMP, Brazil; <i>T. Minea</i> , Université Paris-Saclay, France; <i>F. Alvarez</i> , UNICAMP, Brazil; <i>A. Michels</i> , UCS, Brazil; <i>T. Polcar</i> , University of Southampton and Czech Technical University , UK; <i>Carlos Figueroa</i> , UCS, Brazil	F2-2-TuA-8 Magnetron Sputtering of Hard and Strong Multicomponent (HfNbTiVZr)C Thin Films, <i>Barbara Osinger, S. Fritze, L. Riekehr, E. Lewin, U. Jansson</i> , Uppsala University, Angstrom Laboratory, Sweden
4:20pm	E1-1-TuA-9 Development and Evaluation of Self-Lubricating Nanocomposite Coatings for Metal Forming Dies, <i>Jianliang Lin</i> , Southwest Research Institute, San Antonio Texas, USA	F2-2-TuA-9 Comparative Study of Reactively and Non-Reactively Sputtered High-Entropy Metal-Sublattice Carbides, <i>Alexander Kirnbauer, P. Mayrhofer</i> , TU Wien, Institute of Materials Science and Technology, Austria; <i>P. Polcik</i> , Plansee Composite Materials GmbH, Germany
4:40pm		

Tuesday Afternoon, May 24, 2022

Room Town & Country D	
1:40pm	INVITED: A2-1-TuA-1 Mechanisms of CMAS Attack on Aero-Engine Components, <i>Elisa Zaleski, Pratt & Whitney, USA</i>
2:00pm	Coatings for Use at High Temperatures Session A2-1-TuA Thermal and Environmental Barrier Coatings I Moderators: Sabine Faulhaber , University of California, San Diego, USA, Pantcho Stoyanov , Concordia University, Canada
2:20pm	A2-1-TuA-3 A New Approach to Protect Thermal Barrier Coatings (TBCs) Using Air Plasma Spray (APS)/High-Velocity Oxygen Fuel (HVOF) Coating of Si ₃ N ₄ , <i>Said Bakkar, E. Zucha, J. Moldenhauer, E. Steinmiller</i> , University of Dallas, USA; <i>T. Hossain</i> , Ceriumlab , USA; <i>W. Flanagan</i> , University of Dallas, USA
2:40pm	A2-1-TuA-4 Development of a Low Power Plasma Reactor for the Local Deposition of YSZ Thermal Barrier Coatings at Atmospheric Pressure, <i>Sandra Segondy</i> , Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), France; <i>C. Rio, S. Landais</i> , ONERA, DMAS, Université Paris-Saclay, France; <i>C. Guyon, F. Rousseau</i> , Chimie ParisTech, PSL Research University, CNRS, Institut de Recherche de Chimie Paris (IRCP), France
3:00pm	A2-1-TuA-5 Oxidation Behaviour and Mechanical Properties of Sputter-Deposited TMSi ₂ Coatings (TM = Mo, Nb, Ta), <i>Ahmed Bahr</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <i>S. Richter, T. Glechner, T. Wojcik</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria; <i>J. Ramm</i> , Oerlikon Surface Solutions AG, Liechtenstein; <i>O. Hunold</i> , Oerlikon Surface Solutions AG , Liechtenstein; <i>S. Kolozsvári</i> , Plansee Composite Materials GmbH , Germany; <i>H. Riedl</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
3:40pm	
4:00pm	A2-1-TuA-8 New Hydrogen Barrier Coatings, <i>Akram ALHUSSEIN, I. LAKDHAR</i> , University of Technology of Troyes , France; <i>J. CREUS</i> , La Rochelle University , France
4:20pm	A2-1-TuA-9 Dual-Layer PVD Coating System With Integrated Diffusion Barrier for Oxidation Protection of γ-Tial Based Alloys, <i>Peter-Philipp Bauer</i> , German Aerospace Center, Germany; <i>R. Swadźba</i> , Łukasiewicz Research Network - Institute for Ferrous Metallurgy, Poland; <i>L. Klamann, N. Laska</i> , German Aerospace Center, Germany
4:40pm	B4-4-TuA-10 Synthesis by CVD and Properties of Polycrystalline Silicon Coatings for Structural Applications, <i>Axel Le Doze, G. Couégnat, J. Danet, F. Rebillat, G. Chollon</i> , LCTS, CNRS, Univ. Bordeaux, CEA, SAFRAN CERAMICS, France
5:00pm	Hard Coatings and Vapor Deposition Technologies Session B4-4-TuA Properties and Characterization of Hard Coatings and Surfaces IV Moderators: Naureen Ghafoor , Linköping University, Sweden, Johan Nyman , Linköping Univ., IFM, Thin Film Physics Div., Sweden, Justinas Palisaitis , Linköping Univ., IFM, Thin Film Physics Div., Sweden

Tuesday Evening, May 24, 2022

Special Interest Talks

Room Town & Country A - Session SIT2-TuSIT

Special Interest Session II

Moderator: Samir Aouadi, University of North Texas, USA

7:00pm **INVITED: SIT2-TuSIT-1** Evaluating Electro-Mechanical Reliability using In-Situ Methods,
Megan J. Cordill, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria

7:20pm

Wednesday Morning, May 25, 2022

Room Pacific C		
8:00am	INVITED: C1-WeM-1 Engineering Ultra-thin Films for Extreme Optics and Photonics, <i>Jeremy Munday</i> , University of California at Davis, USA	Functional Thin Films and Surfaces Session C1-WeM Optical Materials and Thin Films Moderator: Nikolas Podraza , University of Toledo, USA
8:20am		
8:40am	C1-WeM-3 Study of $\text{Cs}_x(\text{CH}_3\text{NH}_3)_{1-x}\text{PbBr}_3$ Perovskite with XPS Imaging and Small Area Spectra, <i>Tatyana Bendikov</i> , Weizmann Institute of Science, Israel; <i>Y. Rakita</i> , Columbia University, USA; <i>H. Kaslasi</i> , <i>G. Hodes</i> , <i>D. Cahen</i> , Weizmann Institute of Science, Israel	
9:00am	C1-WeM-4 Tuning the Optical Properties of PVD Deposited SiC Coatings by a Design of Experiments Approach, <i>Vincent Tabouret</i> , <i>A. Crisci</i> , <i>M. Morais</i> , <i>G. Berthomé</i> , <i>E. Garel</i> , <i>G. Renou</i> , <i>D. Chaussende</i> , CNRS, France	
9:20am	C1-WeM-5 Submicron Structures Obtained by Laser Dewetting of Metallic Thin Film Stacks, <i>Bruno Felipe Leitao Almeida</i> , <i>L. Gallais</i> , Institut Fresnel, France; <i>J. Fonné</i> , <i>D. Guimard</i> , Saint-Gobain Research Paris, France	
9:40am		
10:00am		
10:20am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
10:40am		
11:00am	INVITED: C1-WeM-10 Design of High-Performance VO_2 -Based Thermochromic Coatings, and Pathway for Their Industry-Friendly Preparation, <i>Jiri Houska</i> , <i>D. Kolenaty</i> , <i>T. Barta</i> , <i>J. Rezek</i> , <i>J. Vlcek</i> , University of West Bohemia, Czechia	
11:20am		

Wednesday Morning, May 25, 2022

Room Pacific D		
8:00am	F4-1-WeM-1 Synthesis and Oxidation Behavior of $Ti_{0.35}Al_{0.65}B_y$ ($y=1.69-2.43$) Coatings, <i>A. Navidi Kashani, S. Mráz, D. Holzapfel, M. Hans</i> , RWTH Aachen University, Germany; <i>D. Primetzhofer</i> , Uppsala University, Sweden; <i>L. Löfler, P. Ondracka, Jochen Schneider</i> , RWTH Aachen University, Germany	New Horizons in Coatings and Thin Films Session F4-1-WeM New Horizons in Boron-Containing Coatings I Moderators: Helmut Riedl , TU Wien, Austria, Johanna Rosén , Linköping University, Sweden
8:20am	F4-1-WeM-2 Influence of Si Alloying on the High-Temperature Mechanical Properties of CrB ₂ Based Thin Films, <i>Lukas Zauner, T. Glechner, R. Hahn</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <i>O. Hunold, J. Ramm</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>P. Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>H. Riedl</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria	
8:40am	INVITED: F4-1-WeM-3 Design of Novel Transition Metal Diboride-Based Pvd Thin Films: From Pure Compounds to Alloys, Composites and Multilayers, <i>Michael Stueber, V. Ott, S. Ulrich</i> , Karlsruhe Institute of Technology (KIT), Germany; <i>H. Riedl, P. Mayrhofer</i> , Technische Universität Wien, Austria	
9:00am		
9:20am	F4-1-WeM-5 Tribological Properties and Thermal Stability of $V_{1-x}Mo_xB_y$ Coatings, <i>Katarína Viskupová, B. Grančíč, T. Roch, M. Truchlý, M. Mikula, V. Šroba, L. Satrapinský, P. Kúš</i> , Comenius University, Bratislava, Slovakia	
9:40am	H2-2-WeM-6 Abnormal Grain Growth in Ultrafine Grained Ni Under High-Cycle Loading, <i>Olivier Pierron</i> , Georgia Institute of Technology, USA	Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes Session H2-2-WeM Advanced Mechanical Testing of Surfaces, Thin Films, Coatings and Small Volumes II Moderators: James Gibson , RWTH Aachen University, Germany, Olivier Pierron , Georgia Institute of Technology, USA
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
10:20am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
10:40am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
11:00am	H2-2-WeM-10 Superlattice Effect on the Mechanical Properties of Transition Metal Diboride Coatings, <i>Rainer Hahn, A. Tymoszuk</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <i>O. Hunold, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; P. Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>P. Mayrhofer</i> , Institute of Materials Science and Technology, TU Wien, Austria; <i>H. Riedl</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria	
11:20am	H2-2-WeM-11 Fatigue Behavior of Gold Thin Films at Elevated Temperature Studied by Bulge Testing, <i>Anna Krapf</i> , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany	
11:40am	INVITED: H2-2-WeM-12 Tensegrity Metamaterials - Towards Failure Resistant Engineering Systems, <i>Jens Bauer</i> , University of California, Irvine, USA	
12:00pm		

Wednesday Morning, May 25, 2022

Coatings for Use at High Temperatures Room Pacific E - Session A2-2-WeM Thermal and Environmental Barrier Coatings II Moderators: Sabine Faulhaber , University of California, San Diego, USA, Kang Lee , NASA Glenn Research Center, USA		Tribology and Mechanical Behavior of Coatings and Engineered Surfaces Room Town & Country B - Session E1-2-WeM Friction, Wear, Lubrication Effects, and Modeling II Moderators: Noora Manninen , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein, Andreas Rosenkranz , Andreas Rosenkranz, Universidad de Chile
8:00am	INVITED: A2-2-WeM-1 Design of Multi-Component Rare Earth Silicate EBCs for Property Optimization, <i>M. Ridley, C. Miller, R. Webster, H. Olson, A. Salanova, K. Tomko, J. Tomko, J. Ihlefeld</i> , University of Virginia, USA; <i>C. Toher</i> , Duke University, USA; <i>P. Hopkins, Elizabeth Opila</i> , University of Virginia, USA	E1-2-WeM-1 MXenes: A Model Material for Solid Lubricants, <i>Philipp Grützmacher</i> , Vienna University of Technology, Austria; <i>C. Gachot</i> , TU Wien, Austria; <i>S. Suarez</i> , Saarland University, Germany; <i>A. Rosenkranz</i> , University of Chile
8:20am		E1-2-WeM-2 Structural and Nanomechanical Properties of Manganese Phosphate Coatings, <i>Esteban Broidman, Y. Kadin, P. Andric</i> , SKF B.V. - Research and Technology Development (RTD), Netherlands; <i>V. Ott, M. Stüber</i> , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany
8:40am	INVITED: A2-2-WeM-3 Cyclic Steam Oxidation of Single Layer Ytterbium Disilicate-Based Environmental Barrier Coatings Deposited onto Enhanced Roughness Silicon Carbide, <i>K. Kane</i> , Oak Ridge National Laboratory, USA; <i>E. Garcia</i> , Center for Thermal Spray Research, Stony Brook University, USA; <i>C. Parker, M. Lance, B. Pint, Mackenzie Ridley</i> , Oak Ridge National Laboratory, USA	INVITED: E1-2-WeM-3 Nanoscale Materials for Macroscale Applications: Zero-Friction and Zero-Wear Carbon Films (Virtual Presentation), <i>Diana Berman</i> , University of North Texas, USA
9:00am		
9:20am	A2-2-WeM-5 Raman Spectroscopic Identification of Ytterbium Silicate and Thermally Grown Oxide Silica Phases in Environmental Barrier Coatings, <i>Michael Lance, K. Kance, B. Pint</i> , Oak Ridge National Laboratory, USA	E1-2-WeM-5 Self Lubricant TiSiN/TiAgN Coatings: Room and High Temperature Tribological Behavior, <i>F. Fernandes, A. Al-Rjoub</i> , University of Coimbra, Portugal; <i>Albano Cavaleiro</i> , Instituto Pedro Nunes, Portugal
9:40am	A2-2-WeM-6 The Behavior Of Suspension Plasma Sprayed 8YSZ Thermal Barrier Coating With Laser Microtextured Bond Coat Under High Temperature Testing, <i>Pawel Sokolowski, T. Kielczawa, M. Nowakowska</i> , Wroclaw University of Science and Technology, Poland; <i>R. Musalek, T. Tesar</i> , Institute of Plasma Physics of the Czech Academy of Sciences, Czechia	E1-2-WeM-6 Design and Tribological Characterization of Self-Lubricating Alloys for Laser Deposition Processes, <i>H. Torres</i> , AC2T Research GmbH, Austria; <i>Carsten Gachot</i> , TU Wien, Austria; <i>M. Rodriguez Ripoll</i> , AC2T Research GmbH, Austria
10:00am		
10:20am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
10:40am		
11:00am	INVITED: A2-2-WeM-10 Oxidation and Failure in Environmental Barrier Coatings, <i>Bryan Harder, K. Lee, M. Presby</i> , NASA Glenn Research Center, USA; <i>J. Setlock</i> , University of Toledo, USA	E1-2-WeM-10 On the Tribological Performance of Magnetron Sputtered W-S-C Coatings With Conventional and Graded Composition, <i>Todor Vuchkov</i> , Instituto Pedro Nunes, Laboratory for Wear, Testing and Materials, Portugal; <i>A. Cavaleiro</i> , University of Coimbra, Portugal
11:20am		E1-2-WeM-11 Revising the Role of Oxygen "Impurities" in Tribological and Mechanical Performance of MoS ₂ Coatings Under Vacuum and Ambient Air Conditions, <i>Andrey Bondarev, T. Polcar</i> , Czech Technical University in Prague, Czech Republic
11:40am	A2-2-WeM-12 Impact of Surface Degradation on the Radiative Heat Transfer in Thermal Barrier Coatings, <i>Francis Blanchard, B. Baloukas, M. Azzi, M. Kadi, J. Sapieha, L. Martinu</i> , Polytechnique Montreal, Canada	E1-2-WeM-12 Understanding Ultra-Low Coefficient of Friction of a-C Coated Surfaces Under High Contact Pressure and Humidity Levels, <i>Newton K. Fukumasu, A. Tschiptschin, I. Machado, R. Souza</i> , University of São Paulo, Brazil
12:00pm	A2-2-WeM-13 Development and Characterization of an Environmental Barrier Coating System for Novel Mo-Si-Ti Alloys Using Magnetron Sputtering, <i>Ronja Anton, N. Laska, U. Schulz</i> , German Aerospace Center (DLR), Germany	

Wednesday Morning, May 25, 2022

Room Town & Country C	
8:00am	Hard Coatings and Vapor Deposition Technologies Session B5-1-WeM Hard and Multifunctional Nanostructured Coatings I Moderator: Tomas Kozak , University of West Bohemia, Czechia
8:20am	B5-1-WeM-2 Enhanced Thermal Stability of (Ti,Al)N Coatings by Oxygen Incorporation, Damian M. Holzapfel¹ , RWTH Aachen University, Germany; D. Music , Malmö University, Sweden; M. Hans , RWTH Aachen University, Germany; S. Wolff-Goodrich , Max-Planck-Institut für Eisenforschung GmbH, Germany; D. Holec , Montanuniversität Leoben, Austria; D. Bogdanovski , RWTH Aachen University, Germany; M. Arndt , Oerlikon Balzers Coating Germany GmbH, Germany; A. Eriksson, K. Yalamanchili , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; D. Primetzhofer , Uppsala University, Sweden; C. Liebscher , Max-Planck-Institut für Eisenforschung GmbH, Germany; J. Schneider , RWTH Aachen University, Germany
8:40am	B5-1-WeM-3 Metastable Single- or Dual-Phase Structures in Magnetron Sputtered W-Zr Thin-Film Alloys: Properties and Thermal Behavior, M. Cervena, S. Haviar, R. Cerstvy, J. Rezek, Petr Zeman , University of West Bohemia, Czechia
9:00am	B5-1-WeM-4 A Conformable SiAlN/Mo Thermal Barrier Layer for Titanium Alloys Deposited by Magnetron Sputtering, Z. Gao , The University of Manchester, UK; Justyna Kulczyk-Malecka, P. Kelly , Manchester Metropolitan University, UK; P. Xiao , The University of Manchester, UK
9:20am	INVITED: B5-1-WeM-5 Thermal Decomposition of Hard Coatings - Insights from Nanometer-Scale Characterization, Marcus Hans , RWTH Aachen University, Germany; Z. Czigány , Centre for Energy Research, Hungary; D. Neufß, J. Säker, H. Rueß, J. Krause, P. Ondračka , RWTH Aachen University, Germany; D. Music , Malmö University, Sweden; S. Evertz, D. Holzapfel , RWTH Aachen University, Germany; G. Nayak, D. Holec , Montanuniversität Leoben, Austria; D. Primetzhofer , Uppsala University, Sweden; J. Schneider , RWTH Aachen University, Germany
9:40am	
10:00am	
10:20am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
10:40am	
11:00am	B6-1-WeM-10 Thermally Induced Phase Formation in Magnetron Sputtered Ru/Al Multilayers - Impact of Modulation Period on Transition Temperatures and Phase Sequence, Vincent Ott , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany; C. Schaefer , Saarland University, Chair of Functional Materials, Germany; T. Weingärtner, S. Ulrich , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany; C. Pauly , Saarland University, Chair of Functional Materials, Germany; M. Stueber , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany
11:20am	INVITED: B6-1-WeM-11 Structural Design of Diboride Thin Films (Virtual Presentation), Marian Mikula, T. Fiantok , Comenius University in Bratislava, Slovakia; N. Koutná , Linkoping University, Sweden; V. Šroba , Comenius University in Bratislava, Slovakia; D. Sangiovanni , Linkoping University, Sweden
11:40am	

¹ Graduate Student Award Finalist

Wednesday Afternoon, May 25, 2022

Special Interest Talks

Room Town & Country A - Session SIT3-WeSIT

Special Interest Session III

Moderator: Samir Aouadi, University of North Texas, USA

1:00pm **INVITED: SIT3-WeSIT-1** Tribological Coating
Solutions and Lubrication Strategies for Gas Turbine
Engines,
Pantcho Stoyanov, Concordia University, Canada

1:20pm

Wednesday Afternoon, May 25, 2022

New Horizons in Coatings and Thin Films Room Pacific D - Session F1-WeA Nanomaterials and Nanofabrication Moderators: Diederik Depla , Ghent University, Belgium, Vladimir Popok , Aalborg University, Denmark		New Horizons in Coatings and Thin Films Room Pacific E - Session F4-2-WeA New Horizons in Boron-Containing Coatings II Moderators: Marcus Hans , RWTH Aachen University, Germany, Helmut Riedl , TU Wien, Austria, Johanna Rosén , Linköping University, Sweden
2:00pm	INVITED: F1-WeA-1 Polymer Films with Gas-Phase Aggregated Nanoparticles: Formation and Applications, Vladimir Popok , Aalborg University, Denmark	INVITED: F4-2-WeA-1 Understanding and Optimizing the Properties of Superhard Metal Borides, Sarah Tolbert , University of California, Los Angeles, USA
2:20pm		
2:40pm	F1-WeA-3 Stress Evolution in Particle Strengthened Metal-Oxide Nanolaminates: Insights from in-Situ Synchrotron Diffraction Experiments, Barbara Putz , Montanuniversität Leoben, Austria; A. Sharma , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; K. Gradwohl , Leibniz-Institut für Kristallzüchtung, Germany; P. Gruber , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM)-WBM, Germany; D. Täbbens , Helmholtz-Zentrum Berlin für Materialien und Energie (HZB), Germany; X. Maeder , J. Michler , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland	F4-2-WeA-3 Si alloyed Transition Metal Diborides - A Novel Class of Oxidation Resistant Coating Materials, T. Glechner , L. Zauner , R. Hahn , A. Bahr , T. Wojcik , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; J. Ramm , O. Hunold , Oerlikon Surface Solutions AG, Liechtenstein; P. Polcik , Plansee Composite Materials GmbH, Germany; Helmut Riedl , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria
3:00pm	F1-WeA-4 Structure-Processing Relationships of Chiral Organic-Inorganic Thin Films for Circularly Polarized Light Detection, Katherine Burzynski , AFRL / Azimuth Corp., USA; E. Muller , AFRL / UES, USA; A. Trout , The Ohio State University, USA; W. Kennedy , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA	F4-2-WeA-4 High-Power Impulse Magnetron Sputter Deposition of Ti _x Thin Films: Effect of Pulse Length and Peak Current, Niklas Hellgren , Messiah University, USA; I. Zhirkov , Linköping University, IFM, Thin Film Physics Division, Sweden; M. Sortica , Uppsala University, Sweden; A. Petruhins , G. Greczynski , Linköping University, IFM, Thin Film Physics Division, Sweden; I. Petrov , University of Illinois at Urbana-Champaign, USA; L. Hultman , J. Rosen , Linköping University, IFM, Thin Film Physics Division, Sweden
3:20pm	F1-WeA-5 Bio-Inspired Antibacterial Metasurfaces Fabricated by Glancing Angle Deposition, Chuang Qu , J. Rozsa , H. Jung , M. Running , S. McNamara , K. Walsh , University of Louisville, USA	F4-2-WeA-5 Effect of Ar Particles on the Growth and Mechanical Properties of ZrB _{2+x} Films, Tomas Fiantok , T. Roch , Comenius University, Bratislava, Slovakia; P. Svec , Academy of Science, Bratislava, Slovakia; M. Truchly , V. Sroba , M. Mikula , Comenius University, Bratislava, Slovakia
3:40pm	F1-WeA-6 Polymer Templates-Assisted Design of ZnO Films via Swelling-Assisted Sequential Infiltration Synthesis (SIS) and Swelling Based Infiltration (SBI): Properties, Adsorption Characteristics, and Performance, Khalil Omotosho , University of North Texas, USA	INVITED: F4-2-WeA-6 Accurate Composition Depth Profiling of Light Elements in Thin Films Using Ion Beams - What Can Be Achieved?, Daniel Primetzhofer , Uppsala University, Sweden
4:00pm	F1-WeA-7 Pulsed Aerosol Assisted Plasma Deposition: Process and Film Composition Characterization Using Nanoparticles Optical Properties, Adèle Girardeau , LAPLACE, LCC, Safran Tech, France; G. Carnide , LAPLACE, LCC, IMRCP, France; A. Mingotaud , IMRCP, France; M. Cavarroc , Safran Tech, France; M. Kahn , LCC, France; R. Clergereaux , LAPLACE, France	

Wednesday Afternoon, May 25, 2022

Room Town & Country B	
2:00pm	INVITED: E1-3-WeA-1 Critical Materials-Free Cermet Coatings by Thermal Spraying: Sliding and Abrasive Wear Behaviour (Virtual Presentation), <i>Giovanni Bolelli</i> , Unimore, Italy
2:20pm	Tribology and Mechanical Behavior of Coatings and Engineered Surfaces Session E1-3-WeA Friction, Wear, Lubrication Effects, and Modeling III Moderators: Noora Manninen , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein, Andreas Rosenkranz , Andreas Rosenkranz, Universidad de Chile
2:40pm	E1-3-WeA-3 Tribological Behavior of Zirconium Coated Ti-6Al-4V by Pack Cementation, <i>Beyza Öztürk, L. Mengis</i> , DECHEMA Research Institute, Germany; <i>D. Dickes, U. Glatzel</i> , University of Bayreuth, Germany; <i>M. Galetz</i> , DECHEMA Research Institute, Germany
3:00pm	E1-3-WeA-4 Study of Electrochemical and Tribological Properties of Electrophoretic Deposited Thin and Thick Graphene Coatings on Pure Titanium Substrate, <i>Madhusmita Mallick, A. N.</i> , Indian Institute of Technology (IIT), Madras, India
3:20pm	INVITED: TS3-WeA-5 Current and Future Trends in Materials for Advanced Lithium Batteries, <i>O. Kahvecioglu, Carrie Siu</i> , Argonne National Laboratory, USA
3:40pm	Topical Symposia Session TS3-WeA Electrochemical Cells – Hydrogen and Batteries Moderators: Nazlim Bagcivan , Schaeffler Technologies GmbH & Co. KG, Germany, Klaus Böbel , Bosch GmbH, Germany
4:00pm	TS3-WeA-7 Application of Bipolar Hipims to Enhance the Durability Performance of Carbon Coatings in Metallic Bipolar Plates, <i>J. Santiago, I. Fernandez, Pablo Diaz-Rodriguez</i> , Nano4Energy, Spain; <i>M. Panizo, M. Morales-Furio, C. Molpeceres</i> , Technical University Madrid, Spain; <i>J. Sanchez-Lopez</i> , CSIC-University Sevilla, Spain; <i>L. Mendizabal</i> , Tekniker, Spain; <i>G. Sevilla, M. Sanchez, N. Rojas</i> , Spanish Hydrogen National Center, Spain
4:20pm	INVITED: TS3-WeA-8 Coatings for Fuel Cells and Electrolyzers: From Materials to Processes, Challenges and Opportunities, <i>Etienne Bouyer</i> , Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA), Grenoble, France
4:40pm	
5:00pm	TS3-WeA-10 Electrochemically Stable PVD Coatings With Low Interfacial Contact Resistance for Proton Exchange Membrane Electrolyzer Bipolar Plates, <i>Nathan Kruppe, E. Schulz, M. Öte, N. Bagcivan, J. Hackner, S. Rüth</i> , Schaeffler Technologies GmbH & Co. KG, Germany

Wednesday Afternoon, May 25, 2022

Room Town & Country C	
2:00pm	INVITED: B5-2-WeA-1 Design of Coatings for Harsh Environments by Computation and Experiment (Virtual Presentation), <i>Efstathios "Stathis" I. Meletis</i> , University of Texas at Arlington, USA
2:20pm	
2:40pm	B5-2-WeA-3 Microstructure and Properties of PVD Synthesized Super-hard Ti-B-N Coatings, <i>Rebecca Janknecht, R. Hahn, A. Kirnbauer</i> , TU Wien, Institute of Materials Science and Technology, Austria; <i>P. Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>P. Mayrhofer</i> , TU Wien, Institute of Materials Science and Technology, Austria
3:00pm	B5-2-WeA-4 Enhanced Mechanical Performance of Nanostructured B-Dopednitride Coatings Deposited by HiPIMS With Positive Pulses, <i>P. Diaz-Rodriguez, A. Mendez, J. Santiago, Ivan Fernandez, A. Wennberg, J. Endrino</i> , Nano4Energy, Spain; <i>E. Chacon, A. Guzman, M. Panizo</i> , Universidad Politecnica de Madrid, Spain; <i>M. Monclus, J. Molina</i> , IMDEA Materiales, Spain
3:20pm	B5-2-WeA-5 Development of TiB ₂ Coatings in a New Generation Industrial Reactor Based on Hybrid DC-pulsed and HIPIMS Magnetron Sputtering on HSS Steels – Tribological Study at Room, Medium and High Temperature, <i>E. Arias</i> , Asociación de la Industria Navarra, Spain; <i>Gonzalo García fuentes</i> , Asociación de la industria Navarra, Spain; <i>H. Gabriel</i> , PVT Plasma und Vakuum Technik GmbH, Germany; <i>I. Fernández</i> , N4E, Spain; <i>J. Fernández Palacio</i> , Asociación de la Industria Navarra, Spain
3:40pm	B5-2-WeA-6 Study the Effect of Nozzle Geometry on Spray Coating by Aerosol Deposition Method, <i>Bahareh Farahani</i> , California State University, Long Beach, USA; <i>M. Jadidi</i> , Ryerson University, Canada; <i>S. Moghtadernejad</i> , California State University, Long Beach, USA
4:00pm	B5-2-WeA-7 Thick Ceramic Coatings Deposited by Supercritical Fluid Chemical Deposition (SFCD), <i>Erwan Peigney, G. Aubert</i> , ICMCB-CNRS, France; <i>M. Cavarroc</i> , SAFRAN, France; <i>A. Poulon-Quintin, C. Aymonier</i> , ICMCB-CNRS, France

Wednesday Afternoon, May 25, 2022

Room Town & Country D	
2:00pm	B6-2-WeA-1 Industrial Antibacterial Decorative Coatings, <i>Ivan Kolev, P. Immich, A. Fuchs, H. Vercoulen, D. Doerwald</i> , IHI Hauzer Techno Coating B.V., Netherlands
2:20pm	B6-2-WeA-2 Few Thoughts about Hard Coatings and Machining Industry, <i>Aharon Inspektor</i> , Carnegie Mellon University, USA
2:40pm	INVITED: B6-2-WeA-3 Effect of Coating Architecture on Stress Relief Mechanism of TiZrN Coatings on Si Substrate (Virtual Presentation), <i>Jia-Hong Huang, M. Liu, Y. Chiu</i> , National Tsing Hua University, Taiwan
3:00pm	
3:20pm	INVITED: C2-1-WeA-5 Developing Electronic Materials With an Eye Towards Packaging, <i>Marcel A. Wall</i> , Intel Corporation, USA
3:40pm	
4:00pm	C2-1-WeA-7 Crystallographic Study of Non-polar Al _{0.7} Sc _{0.3} N(11-20) Grown on r-plane Al ₂ O ₃ Using Magnetron Sputter Epitaxy, <i>Aakash Nair, L. Kirste</i> , Fraunhofer Institute for Applied Solid State Physics IAF, Germany; <i>N. Manuel Feil</i> , University of Freiburg, Germany; <i>M. Prescher, A. Žukauskaitė</i> , Fraunhofer Institute for Applied Solid State Physics IAF, Germany
4:20pm	C2-1-WeA-8 Tuning Barrier Properties of Metal Nitride Thin Films for GaN Transistor Applications, <i>Clemens Nyffeler, B. Attarimashalkoubeh, J. Patscheider, B. Heinz</i> , Evatec AG, Switzerland
4:40pm	INVITED: C2-1-WeA-9 Advancements in Metallic Interconnects for the Semiconductor Industry, <i>Thomas Ponnuswamy</i> , Lam Research Corp, USA
5:00pm	

Wednesday Afternoon, May 25, 2022

Awards Convocation and Honorary Lecture

Room Town & Country A - Session HL-WeHL

Bunshah Award Honorary Lecture

Moderator:

Ivan G. Petrov, University of Illinois at Urbana-Champaign, USA

5:45pm **INVITED: HL-WeHL-1 R.F. Bunshah Award and ICMCTF Lecture Invited Talk: Functional Coating and Surface Engineering for Real Life,**
***Jolanta-Ewa Klemborg-Sapieha¹*, Polytechnique Montréal, Canada**

6:05pm

¹ R.F. Bunshah Awardee

Thursday Morning, May 26, 2022

Room Pacific D	
8:00am	INVITED: C3-1-ThM-1 Designing Optimal Environments for Surface Catalytic Reactions in Perovskite Oxide Electrodes, <i>L. Martin, Abel Fernandez</i> , University of California, Berkeley, USA
8:20am	
8:40am	C3-1-ThM-3 Halide Perovskites: Advanced Photovoltaic Materials Empowered by a Unique Bonding Mechanism, <i>Matthias Wuttig</i> , Sommerfeldstrasse, Germany; <i>C. Schön, M. Schumacher</i> , RWTH Aachen University, Germany; <i>J. Robertson</i> , University of Cambridge , UK; <i>P. Golub</i> , Heyrovsky Institute of Physical Chemistry, Czechia; <i>E. Bousquet</i> , Liege University, Belgium; <i>C. Gatti</i> , CNR-SCITEC, Italy; <i>J. Raty</i> , University Liege, Belgium
9:00am	INVITED: C2-2-ThM-4 Thermal, Plasma-enhanced and Spatial Atomic Layer Deposition as an Enabling Nanotechnology for Electronic Devices, <i>Erwin Kessels</i> , Eindhoven University of Technology, Netherlands
9:20am	
9:40am	C2-2-ThM-6 Effects of Annealing Conditions on Temperature Coefficient of Resistance of Pt/AlO _x Thermistors, <i>Atasi Dan, E. Antunes, C. Yung, N. Tomlin, M. Stephens, J. Lehman</i> , Applied Physics Division, National Institute of Standards and Technology (NIST), Boulder, USA
10:00am	C2-2-ThM-7 Ultrathin Transition Metal Silicides Investigated In Situ Using Ion Scattering, <i>Philipp M. Wolf, H. Bruce, W. Hallén, E. Pitthan, Z. Zhang</i> , Uppsala University, Sweden; <i>C. Lavoie</i> , IBM T. J. Watson Research Center, USA; <i>T. Tran, D. Primetzhofer</i> , Uppsala University, Sweden
10:20am	C2-2-ThM-8 Synthesis of a New Ternary Nitride Semiconductor - Zn ₂ VN ₃ : A Combinatorial Exploration of the Zn-V-N Phase Space, <i>S. Zhuk</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>A. Kistanov</i> , University of Oulu, Finland; <i>S. Boehme</i> , ETH Zürich, Switzerland; <i>N. Ott, M. Stiefel</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>M. Kovaleenko</i> , ETH Zürich, Switzerland; <i>Sebastian Siol</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
10:40am	C2-2-ThM-9 Theoretical and Experimental Approaches for the Determination of Functional Properties of a New Semiconductor: Mg ₂ S _n N ₂ , <i>Agathe Virfeu, F. Alnjiman, S. Diliberto, J. Ghanbaja</i> , Institut Jean Lamour - Université de Lorraine, France; <i>E. Haye</i> , University of Namur, Belgium; <i>S. Migot, J. Pierson</i> , Institut Jean Lamour - Université de Lorraine, France
11:00am	C2-2-ThM-10 Relative Effects of Pulsed Laser Deposition Parameters on the Stoichiometry of Multiferroic Thin Films, <i>W. C. McGinnis, A. Henning, T. Emery-Adleman</i> , Naval Information Warfare Center Pacific, USA
11:20am	C2-2-ThM-11 Effects of Carbon Addition on Ge ₂ Sb ₂ Te ₅ Film Structure and Properties, <i>David Adams, E. Lang, T. Clark, C. Sobczak, E. Scott, J. Custer</i> , Sandia National Laboratories, USA; <i>T. Beechem</i> , Purdue University, USA; <i>K. Hattar, M. Rodriguez</i> , Sandia National Laboratories, USA

Thursday Morning, May 26, 2022

Room Pacific E	
8:00am	
8:20am	
8:40am	F4-3-ThM-3 Synthesis of MoAlB Thin Films Containing MoB MBene Regions, <i>R. Sahu</i> , Max-Planck-Institut für Eisenforschung GmbH, RWTH Aachen University, Germany; <i>D. Bogdanovski, S. Evertz, P. Pöllmann, D. Holzapfel, E. Mayer, J. Achenbach</i> , RWTH Aachen University, Germany; <i>S. Zhang</i> , Max-Planck-Institut für Eisenforschung GmbH, Germany; <i>M. Hans</i> , RWTH Aachen University, Germany; <i>D. Primetzhofer</i> , Uppsala University, Sweden; <i>C. Scheu</i> , Max-Planck-Institut für Eisenforschung GmbH, RWTH Aachen University, Germany; <i>Jochen M. Schneider</i> , Materials Chemistry, RWTH Aachen University, Germany
9:00am	F4-3-ThM-4 On the Surpassing Fracture Toughness of TiB _{2±Δ} Thin Films, <i>Christoph Fugger, A. Hirle, R. Hahn, T. Wojcik</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <i>O. Hunold</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>P. Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>H. Riedl</i> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria
9:20am	INVITED: F4-3-ThM-5 Revealing the Beauty of Imperfection in Novel Diboride Coatings by Transmission Electron Microscopy, <i>Justinas Palisaitis</i> , Linköping Univ., IFM, Thin Film Physics Div., Sweden
9:40am	
10:00am	F4-3-ThM-7 Thermally Induced Structure Evolution and Improved Oxidation Behavior of Ternary Ta _{1-x} Al _x B _{2+Δ} Hard Thin Films, <i>Viktor Šroba</i> , Comenius University, Bratislava, Slovakia; <i>T. Fiantok</i> , Comenius University in Bratislava, Slovakia; <i>M. Truchlý, T. Roch, B. Grančíč</i> , Comenius University, Bratislava, Slovakia; <i>P. Švec, Jr.</i> , Institute of Physics, Slovak Academy of Sciences, Slovakia; <i>Š. Nagy</i> , Institute of Materials and Machine Mechanics SAS, Slovakia; <i>V. Izai</i> , Comenius University, Bratislava, Slovakia; <i>T. Glechner</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, Austria; <i>H. Riedl</i> , Institute of Materials Science and Technology, TU Wien, Austria; <i>P. Kúš, M. Mikula</i> , Comenius University, Bratislava, Slovakia
10:20am	INVITED: F4-3-ThM-8 Mapping the X-B-C Systems: Search for the Elusive X ₂ BC Phase, <i>Pavel Souček, S. Debnarova, M. Alishahi, S. Mirzaei, M. Kroker, L. Zábranský, V. Bursíkova</i> , Masaryk University, Czechia; <i>Z. Czigány, K. Balazsi</i> , Centre for Energy Research, Hungary; <i>M. Hans, D. Holzapfel, S. Mraz, J. Schneider</i> , RWTH Aachen, Germany; <i>P. Vasina</i> , Masaryk University, Czechia
10:40am	
11:00am	F4-3-ThM-10 Industrial Deposition of W-B-C Coatings: Properties and Process Modelling, <i>Michael Kroker, P. Souček, L. Zábranský, V. Buršíková</i> , Masaryk University, Czechia; <i>V. Sochora, M. Jílek</i> , SHM s.r.o., Czechia; <i>P. Vašina</i> , Masaryk University, Czechia
11:20am	F4-3-ThM-11 Magnetron Sputter Deposition of Boron Carbide Films on Tilted Substrates, <i>Swanee Shin, L. Bayu Aji</i> , Lawrence Livermore National Laboratory, USA; <i>J. Bae</i> , General Atomics, USA; <i>A. Engwall, M. Nielsen, J. Hammons</i> , Lawrence Livermore National Laboratory, USA; <i>X. Zuo, B. Lee</i> , Argonne National Laboratory, USA; <i>X. Lepro Chavez, P. Mirkarimi, S. Kucheyev</i> , Lawrence Livermore National Laboratory, USA

Thursday Morning, May 26, 2022

Room Town & Country B	
8:00am	INVITED: G2-ThM-1 Surface Engineering Opportunities: Harsh Environments Meeting New Strategies for Microstructural Designs (Virtual Presentation), <i>Chris Berndt</i> , Australian Research Council, Industrial Transformation Training Centre, Australia
8:20am	
8:40am	INVITED: G2-ThM-3 Plasma Nitriding of Forming Tools for the Automotive Industry - Challenges and Opportunities, <i>Manuel Mee</i> , Oerlikon Balzers Coating Germany GmbH, Germany
9:00am	
9:20am	G2-ThM-5 Enhanced Wear and Corrosion Properties of Stainless Steel by Electron Induced Plasma Nitriding, <i>Petros Abraha</i> , Meijo University, Japan
9:40am	G2-ThM-6 Tribological and Machining Performance of TiSiN(Ag) Coatings Deposited by HiPIMS, <i>Diogo Cavaleiro, S. Carvalho, F. Fernandes</i> , University of Coimbra, Portugal
10:00am	G2-ThM-7 Crystal Structure, Localized Surface Plasmon Resonance and Sensing Properties of Infrared Transparent Conductive Thin Films, <i>Liangge Xu</i> , Harbin Institute of Technology, China
10:20am	G2-ThM-8 Research on the Anti-Reflection Performance of Tetrahedral Amorphous Carbon Coatings by Ga Doping, <i>HoeKun Kim, K. Lee, S. Lee</i> , Korea Aerospace University, Korea (Republic of)
10:40am	E2-1-ThM-9 Effect of Thin Film Properties on Delamination Behavior and Interface Adhesion, <i>Alice Lassnig, S. Zak, R. Pippa</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <i>C. Mitterer</i> , Montanuniversität Leoben, Austria; <i>M. Cordill</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria
11:00am	E2-1-ThM-10 Buckling-Induced Delamination: Connection between Mode-Mixity and Dundurs' Parameters, <i>Stanislav Zak, M. Cordill</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria
11:20am	E2-1-ThM-11 Colored Picosecond Acoustics Versus Scotch Tape Adhesion Test: Confrontation on a Series of Similar Samples With a Variable Adhesion, <i>A. Vital-Juarez</i> , IEMN UMR CNRS 8520, France; <i>J. Desmarres</i> , CNES, France; <i>Arnaud DEVOS</i> , IEMN UMR CNRS 8520, France
11:40am	INVITED: E2-1-ThM-12 High-Throughput Screening of Adhesion and Friction of Solid Interfaces, <i>Maria Clelia Righi</i> , University of Bologna, Italy
12:00pm	

Thursday Morning, May 26, 2022

Hard Coatings and Vapor Deposition Technologies Room Town & Country C - Session B1-1-ThM PVD Coatings and Technologies I Moderator: Frank Kaulfuss, Fraunhofer Institute for Material and Beam Technology (IWS), Germany		Hard Coatings and Vapor Deposition Technologies Room Town & Country D - Session B8-1-ThM HiPIMS, Pulsed Plasmas and Energetic Deposition I Moderators: Tiberiu Minea, Université Paris-Saclay, France, Martin Rudolph, Leibniz Inst. of Surface Eng. (IOM), Germany
8:00am		B8-1-ThM-1 the Role of He (23S1) Metastable Atoms to Generate High Current Density in Pulsed Magnetron Discharge, Abderzak FARSY , Laboratoire de Physique des Gaz et des Plasmas (LPGP), University Paris Saclay - CNRS, Orsay, France; E. Morel , SuperGrid Institute, France; T. Minea , Laboratoire de Physique des Gaz et des Plasmas (LPGP), University Paris Saclay -CNRS, Orsay, France
8:20am	B1-1-ThM-2 Optimization of RF Magnetron Sputter Deposition of Ultrathick Boron Carbide Coatings, Alison Engwall , Lawrence Livermore National Laboratory, USA; J. Bae , General Atomics, USA; L. Bayu Aji , S. Shin , P. Mirkarimi , S. Kucheyev , Lawrence Livermore National Laboratory, USA	B8-1-ThM-2 Transport of Ions and Neutrals in HiPIMS Studied by Particle-Based Simulations, Tomas Kozak , University of West Bohemia, Czechia
8:40am	INVITED: B1-1-ThM-3 Hybrid Technologies for Wear Protective Coatings With Adaptive Behavior, Andrey Voevodin , University of North Texas, USA	INVITED: B8-1-ThM-3 Kinetic Investigation of Electron Heating in HiPIMS Discharges, Bocong Zheng , Fraunhofer USA; Y. Fu , Tsinghua University, China; K. Wang , T. Schuelke , Fraunhofer USA; Q. Fan , Michigan State University, USA
9:00am		
9:20am	B1-1-ThM-5 Cylindrical Magnetron Deposition of TiAlN Coatings with HiPIMS, Veronika Simova , O. Zabeida , L. Varela Jimenez , J. Qian , J. Klembberg-Sapieha , L. Martinu , Polytechnique Montréal, Canada	B8-1-ThM-5 The Influence of the Magnetic Field on the Discharge Parameters of a High Power Impulse Magnetron Sputtering Discharge, Martin Rudolph , Leibniz Institute of Surface Engineering (IOM), Germany; N. Brenning , KTH Royal Institute of Technology, Sweden; H. Hajhoseini , University of Iceland; Raadu , KTH Royal Institute of Technology, Sweden; T. Minea , Université Paris- Saclay, France; A. Anders , Leibniz Institute of Surface Engineering (IOM), Germany; J. Gudmundsson , University of Iceland; D. Lundin , Linköping University, IFM, Sweden
9:40am	B1-1-ThM-6 Development of VC-based Early Transition Metal Carbide Superlattices via Compound Target Magnetron Sputtering, Barbara Schmid , N. Koutná , R. Hahn , J. Buchinger , TU Wien, Institute of Materials Science and Technology, Austria; S. Kolozsvari , Plansee Composite Materials, Germany; E. Pitthan Filho , D. Primetzhofer , Uppsala University, Sweden; P. Mayrhofer , TU Wien, Institute of Materials Science and Technology, Austria	B8-1-ThM-6 Digitalisation Strategies for a Digital Twin of the Synthesis of Functional Materials by High Power Impulse Magnetron Sputtering and Other Plasma PVD Processes, Arutiun Ehasarian , A. Arunachalam Sugumaran , P. Hovsepian , Sheffield Hallam University, UK; C. Davies , P. Hatton , Ionbond UK
10:00am	B1-1-ThM-7 New Approach to Ceria-Based Electrolyte Deposition by Reactive Magnetron Sputtering, Kamel Ouari , E. Zgheib , S. Achache , LASMIS, University of Technology of Troyes, France; M. Arab Pour Yazdi , A. Billard , P. Briot , FEMTO-ST, University of Technology of Belfort-Montbéliard, France; F. Sanchezette , LASMIS, University of Technology of Troyes, France	B8-1-ThM-7 Decrease of the Interfacial Adhesion to Polymers and Pharmaceuticals Through Modification of Steel Surfaces by PVD and CVD Techniques, M. Lima , University of Minho, Portugal; R. Silva , University of Aveiro, Portugal; F. Ferreira , University of Coimbra, Portugal; F. Oliveira , R. Silva , University of Aveiro, Portugal; A. Cavaleiro , Sandra Carvalho , University of Coimbra, Portugal
10:20am	B1-1-ThM-8 Sputter-Deposited Zr-Cu Thin Film Metallic Glasses: Microstructure and Properties Control of as-Deposited Films and Impact of Ultra-Short Pulsed Laser Irradiation Treatments on the Film's Structure, Alejandro Borroto , Institut Jean Lamour - Université de Lorraine, France; M. Prudent , Laboratoire Hubert Curien - Université de Lyon, France; S. Bruyère , Institut Jean Lamour - Université de Lorraine, France; F. Bourquard , Laboratoire Hubert Curien - Université de Lyon, France; D. Pilloud , D. Horwat , Institut Jean Lamour - Université de Lorraine, France; M. Leroy , IREIS, Groupe HEF, France; P. Steyer , MATEIS, INSA Lyon, Université de Lyon, France; J. Colombier , F. Garrelie , Laboratoire Hubert Curien - Université de Lyon, France; J. Pierson , Institut Jean Lamour - Université de Lorraine, France	B8-1-ThM-8 Target Erosion Effects During Hipims Deposition of Ultrathick Au-Ta Alloy Films, J. Bae , General Atomics, USA; A. Engwall , L. Bayu Aji , S. Shin , A. Baker , J. Moody , S. O. Kucheyev , Lawrence Livermore National Laboratory, USA

Thursday Lunch, May 26, 2022

Focused Topic Session

Room Town & Country C - Session FTS1-ThL

Focused Topic Session I

12:20pm	FTS1-ThL-1 The Art of Publishing, <i>Jörg Patscheider</i> , Evatec AG, Switzerland	
12:40pm		
1:00pm		

Thursday Afternoon, May 26, 2022

Hard Coatings and Vapor Deposition Technologies Room Pacific D - Session B3-ThA Deposition Technologies and Applications for Carbon-based Coatings Moderators: Konrad Fadenberger, Robert Bosch GmbH, Germany, Frank Papa, GP Plasma, USA		Topical Symposia Room Pacific E - Session TS4-ThA Big Data, Machine Learning, Artificial Intelligence and High-Throughput Methods Moderator: Igor Abrikosov, Linköping University, IFM, Sweden
1:20pm	B3-ThA-1 Smooth and Wear-resistant Carbon Coatings Deposited by S3p™, <i>Julien Kéraudy, K. Siegfried, D. Martin, S. Guimond</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein	INVITED: TS4-ThA-1 New 3D and 2D Metal Borides from Materials Synthesis Guided by High-Throughput Simulations, <i>Johanna Rosen</i> , Linköping University, Sweden
1:40pm	B3-ThA-2 New Developments on Hydrogen Free Carbon Coatings for Automotive, Industrial and Tool Applications, <i>Philipp Immich, L. Tegelaers, G. Negrea, R. Jacobs, G. Fransen</i> , IHI Hauzer Techno Coating B.V., Netherlands	
2:00pm	INVITED: B3-ThA-3 Carbon-Based Coatings for Forming and Protection of Stainless Steel Sheets, <i>Marcus Morstein</i> , Hightech Zentrum Aargau AG, Switzerland	
2:20pm		
2:40pm	B3-ThA-5 DLC Coatings: Diamond Hardness & Graphite Lubrication Combined to Meet Industrial Application Requirements, <i>Hamid Bolvardi</i> , PLATIT AG, Switzerland; <i>J. Kluson, M. Jilek</i> , PLATIT a.s., Czechia; <i>R. Zemlicka, A. Lümkemann</i> , PLATIT AG, Switzerland	
3:00pm	B3-ThA-6 Modeling of High Power Impulse Magnetron Sputtering Discharges With Graphite Target, <i>H. Eliasson</i> , Linköping University, Sweden; <i>M. Rudolph</i> , Leibniz Institute of Surface Engineering (IOM), Germany; <i>N. Brenning</i> , KTH Royal Institute of Technology, Sweden; <i>H. Hajihoseini</i> , University of Twente, Netherlands; <i>M. Zanaska</i> , Linköping University, Sweden; <i>M. Adriaans</i> , Eindhoven University of Technology, Netherlands; <i>M. Raadu</i> , KTH Royal Institute of Technology, Sweden; <i>Tiberiu Minea</i> , Université Paris-Saclay, France; <i>J. Gudmundsson</i> , University of Iceland; <i>D. Lundin</i> , Linköping University, Sweden	
3:20pm	B3-ThA-7 Time Resolved Determination of Plasma Parameters, Ionization and Macroparticles in an Industrial Scale Ta-C Laser-Arc Coating System, <i>Mathis Klette</i> , Kiel University, Germany; <i>M. Kopte, W. Fukarek</i> , VTD Vakuumtechnik Dresden GmbH, Germany; <i>H. Kersten</i> , Kiel University, Germany	
3:40pm	B3-ThA-8 Fabrication of Hot Magnetron Carbon Targets for a High-Rate Films Deposition by Using Magnetron Sputtering Technique Under the Injection of Neon-Helium Gas Mixture, <i>Bartosz Wicher, R. Chodun</i> , Warsaw University of Technology, Poland; <i>Ł. Skowroński, M. Trzciński</i> , Bydgoszcz University of Science and Technology, Poland; <i>K. Król</i> , Institute of Microelectronics and Optoelectronics, Warsaw University of Technology, Poland; <i>A. Lachowski</i> , Institute of High Pressure Physics, Polish Academy of Sciences, Poland; <i>K. Nowakowska-Langier</i> , National Centre for Nuclear Research (NCBJ), Poland; <i>K. Zdunek</i> , Warsaw University of Technology, Poland	
4:00pm	B3-ThA-9 Adjusting the Properties of ta-C by Doping with Metals and Non-metals, <i>Frank Kaulfuss, F. Hofmann, T. Kruelle, V. Weinhacht</i> , Fraunhofer Institute for Material and Beam Technology (IWS), Germany	TS4-ThA-9 Transfer Learning of Thermodynamic and Elstic Properties of Hard-Coating Alloys, <i>Henrik Levämäki, F. Tasnadi, D. Sangiovanni</i> , Linköping University, IFM, Sweden; <i>L. Johnson</i> , Sandvik Coromant, Sweden; <i>R. Armiento, I. Abrikosov</i> , Linköping University, IFM, Sweden
4:20pm	B3-ThA-10 Improved Tribological Properties of DLC Coatings by Pulsed Laser Hardening, <i>Sylvain Le Coultr</i> , Berner Fachhochschule, Switzerland; <i>J. Matthey, C. Rieille</i> , HE-Arc, Switzerland; <i>B. Neuenschwander</i> , Berner Fachhochschule, Switzerland	TS4-ThA-10 Data-Driven Search for Thermal Insulators Guided by Anharmonicity: From First Principles to Machine Learning, <i>Florian Knoop</i> , Linköping University, IFM, Sweden; <i>M. Langer</i> , Technical University of Berlin, Germany; <i>C. Carbogno</i> , NOMAD Laboratory at the Fritz Haber Institute of the Max Planck Society, Germany; <i>M. Rupp</i> , University of Konstanz, Germany; <i>M. Scheffler</i> , NOMAD Laboratory at the Fritz Haber Institute of the Max Planck Society, Germany
4:40pm		TS4-ThA-11 2D Phase Mapping of Hf-Al-Si Refractory Complex Concentrated Alloy Produced using High-Throughput Magnetron Sputtering, <i>Sophia Cooper, M. Dockins, M. Young, A. Voevodin</i> , University of North Texas, USA; <i>A. Ghoshal, V. Blair</i> , U.S. Army Futures Command, USA; <i>S. Aouadi</i> , University of North Texas, USA

Thursday Afternoon, May 26, 2022

Room Town & Country B	
1:20pm	Tribology and Mechanical Behavior of Coatings and Engineered Surfaces Session E2-2-ThA Mechanical Properties and Adhesion II Moderators: Carsten Gachot , Vienna University of Technology, Austria, Alice Lassnig , Austrian Academy of Sciences, Austria
1:40pm	
2:00pm	INVITED: E2-2-ThA-3 Reliability Assessment of Thin Films and Multilayers in Electronic Packages (Virtual Presentation), <i>Golta Khatibi</i>, TU Wien, Austria
2:20pm	
2:40pm	E2-2-ThA-5 A Measurement Structure for <i>in-situ</i> Electrical Monitoring of Fatigue Delamination, <i>Sebastian Moser, D. Tscharnuter, M. Nelhiebel, M. Reisinger, J. Zechner, KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Austria; M. Cordill, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria</i>
3:00pm	E2-2-ThA-6 Modeling of Residual Stress Evolution in Thin Films: Effects of Growth Kinetics, Microstructural Evolution and Energetic Particle, <i>E. Chason, T. Su, Z. Rao, S. Berman, Brown University, USA; Diederik Depla, Ghent University, Belgium</i>
3:20pm	E2-2-ThA-7 Mechanical, Structural, Morphological and Biological Evaluation of Multilayer Coatings of HA-Ag/TiO₂/TiN/Ti on Ti6Al4V Obtained by Magnetron Sputtering for Implant Application, <i>Julián Andrés Lenis Rodas, F. Bolívar Osorio, E. Contreras Romero, University of Antioquia, Colombia; A. Hurtado Macías, CIMAV, Mexico; P. Rico, J. Gómez Ribelles, Valencia Polytechnic University, Spain; M. Pacha Olivenza, M. Gonzales Martín, University of Extremadura, Spain</i>

Thursday Afternoon, May 26, 2022

Room Town & Country C	
1:20pm	INVITED: B1-2-ThA-1 Ultra-Precision Optical Surface Processing by Reactive Atmospheric Plasmas and Low Energy Ion Beams (Virtual Presentation), <i>Thomas Arnold</i> , Leibniz Institute of Surface Engineering (IOM), Germany; <i>J. Bauer</i> , Leibniz Institute of Surface Engineering (IOM), Germany , Germany; <i>G. Boehm, H. Müller</i> , Leibniz Institut of Surface Engineering (IOM), Germany
1:40pm	
2:00pm	B1-2-ThA-3 A Combinatorial Approach to Developing Sputter-Deposited Heavy-Metal Alloy Films for Inertial Confinement Fusion Applications, <i>Leonardus Bimo Bayu Aji, A. Engwall</i> , Lawrence Livermore National Laboratory, USA; <i>J. Bae</i> , General Atomics, USA; <i>A. Baker, S. Shin, S. McCall, J. Moody, S. Kucheyev</i> , Lawrence Livermore National Laboratory, USA
2:20pm	B1-2-ThA-4 Machine Learning Based Model for Plasma Prediction in HPPMS Processes, <i>K. Bobzin, C. Kalscheuer, M. Carlet, Julia Janowitz</i> , Surface Engineering Institute - RWTH Aachen University, Germany
2:40pm	B1-2-ThA-5 Oxidation Stability of Oxynitride CrAlON Hard Coatings, <i>K. Bobzin, C. Kalscheuer</i> , Surface Engineering Institute - RWTH Aachen University, Germany; <i>G. Grundmeier, T. de los Arcos, S. Schwiderek</i> , Technical and Macromolecular Chemistry - University of Paderborn, Germany; <i>Marco Carlet</i> , Surface Engineering Institute - RWTH Aachen University, Germany
3:00pm	INVITED: C3-2-ThA-6 Atomic/Molecular Layer Deposition of Layer-Engineered Inorganic-Organic Thin Films for Emerging Energy Technologies, <i>Maarit Karppinen</i> , Aalto University, Finland
3:20pm	
3:40pm	C3-2-ThA-8 Transparent Niobium-Doped Titanium Dioxide Thin Films With High Seebeck Coefficient for Thermoelectric Applications, <i>Joana Ribeiro, F. Correia, F. Rodrigues</i> , University of Minho, Portugal; <i>S. Reparaz, A. Goni</i> , Institut de Ciència de Materials de Barcelona-CSIC, Spain; <i>C. Tavares</i> , University of Minho, Portugal
4:00pm	C3-2-ThA-9 X-Ray Absorption Spectroscopy Study of Local Order in Transparent Thermoelectric Thin Films of Doped ZnO, <i>F. Correia, J. Ribeiro, F. Barbosa, M. Andritschky</i> , Centre of Physics of the Universities of Minho and Porto (CF-UM-UP), University of Minho, Portugal; <i>A. Kuzmin, I. Pudza</i> , Institute of Solid State Physics, University of Latvia; <i>A. Kalinko</i> , Deutsches Elektronen-Synchrotron – A Research Centre of the Helmholtz Association, Gibraltar; <i>E. Welter</i> , Deutsches Elektronen-Synchrotron – A Research Centre of the Helmholtz Association, Germany; <i>A. Mendes</i> , LEPABE, Faculty of Engineering of the University of Porto, Portugal; <i>A. LaGrow</i> , International Iberian Nanotechnology Laboratory (INL), Portugal; <i>O. Bondarchukat</i> , International Iberian Nanotechnology Laboratory (INL) , Portugal; <i>N. Sadrine, R. Correia, T. Monteiro, i3N, Departamento de Física, Universidade de Aveiro, Portugal; Carlos J. Tavares</i> , Centre of Physics of the Universities of Minho and Porto (CF-UM-UP), University of Minho, Portugal

Thursday Afternoon, May 26, 2022

Room Town & Country D	
1:20pm	INVITED: B8-2-ThA-1 Diagnosing Bipolar HiPIMS Plasmas Using Laser Thomson Scattering (Virtual Presentation), <i>James Bradley, M. Law</i> , University of Liverpool, UK
1:40pm	
2:00pm	B8-2-ThA-3 Time Resolved IEDF, EEDF and Q/M of a HiPIMS Discharge for Different Pulse Conditions, Pressures, and Probe Orientations, <i>Z. Jeckell</i> , University of Illinois at Urbana Champaign, USA; <i>D. Barlaz</i> , University of Illinois Urbana Champaign, USA; <i>W. Huber, T. Houlahan, I. Haehnlein</i> , Starfire Industries, USA; <i>Brian Jurczyk</i> , Starfire Industries LLC, USA; <i>D. Ruzic</i> , University of Illinois Urbana Champaign, USA
2:20pm	B8-2-ThA-4 Metal-Ion Synchronized Reactive HiPIMS of AlScN for Piezoelectric Applications, <i>Jyotish Patidar, K. Thorwarth, T. Amelal, S. Zhuk, S. Sial</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
2:40pm	B8-2-ThA-5 Selective Metal Ion Irradiation Using Bipolar HiPIMS: A New Route to Tailor Film Nanostructure and the Resulting Mechanical Properties, <i>Ivan Fernandez</i> , NANO4ENERGY SLNE, Spain
3:00pm	B8-2-ThA-6 Ion Beam Sputter Deposition of Gallium Oxide Thin Films, <i>D. Kalanov, Y. Unutulmazsoy, André Anders, C. Bundesmann</i> , Leibniz Institute of Surface Engineering (IOM), Germany
3:20pm	INVITED: B8-2-ThA-7 The Promise of Data-Driven Methods for Diagnostics and Control of Plasma Interactions with Surfaces, <i>Ali Mesbah</i> , University of California Berkeley, USA
3:40pm	
4:00pm	B8-2-ThA-9 Colored Random Noise of Cathodic Arcs: What Is It? Should We Care?, <i>André Anders, K. Oh, D. Kalanov</i> , Leibniz Institute of Surface Engineering (IOM), Germany

Thursday Afternoon, May 26, 2022

Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes

Room Golden State Ballroom - Session HP-ThP

Advanced Characterization Techniques for Coatings, Thin Films, and Small Volumes (Symposium H) Poster Session - 5:00pm – 7:00 pm

HP-ThP-1 e-Poster Presentation: Strategies for Increasing the Fracture Toughness of Hard Coatings Using CrN as a Role Model, *Rainer Hahn, S. Rosenecker, D. Forstner*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; *T. Wojcik*, Institute of Materials Science and Technology, TU Wien, Austria; *O. Hunold*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; *S. Kolozsvári*, Plansee Composite Materials GmbH, Germany; *P. Mayrhofer*, Institute of Materials Science and Technology, TU Wien, Austria; *H. Riedl*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria

HP-ThP-2 Insights on Fracture and Fatigue Mechanisms of Hard Protective Coatings, *Lukas Zauner, R. Hahn*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; *O. Hunold*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; *P. Polcik*, Plansee Composite Materials GmbH, Germany; *H. Riedl*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria

HP-ThP-5 Acoustic Monitoring of Nanoindentation Induced Nanofatigue, *Jurgis Daugela*, Johns Hopkins University, USA; *A. Daugela*, Nanometronix LLC, USA

HP-ThP-6 Spotting the CSM Plasticity Error during Nanoindentation with Continuous Stiffness Measurements, *B. Merle*, Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany; *Hendrik Holz*, University of Erlangen-Nuremberg (FAU), Germany

HP-ThP-7 Advanced Characterisation in Amorphous Thin Films for Biomedical Applications, *M. Sebastiani, Edoardo M. Rossi*, Università degli studi Roma Tre, Italy

HP-ThP-8 Capabilities of Time-of-Flight Low-Energy Ion Scattering Demonstrated on the Example of Surface Oxidation of Ti and Ti-Based Hard Coatings, *Philipp M. Wolf*, Department of Physics and Astronomy, Uppsala University, Sweden; *D. Neuß*, Materials Chemistry, RWTH Aachen University, Germany; *T. Tran*, Department of Physics and Astronomy, Uppsala University, Sweden; *M. Hans, J. Schneider*, Materials Chemistry, RWTH Aachen University, Germany; *D. Primetzhofer*, Department of Physics and Astronomy, Uppsala University, Sweden

Coatings for Biomedical and Healthcare Applications

Room Golden State Ballroom - Session DP-ThP

Coatings for Biomedical and Healthcare Applications (Symposium D) Poster Session- 5:00pm – 7:00 pm

DP-ThP-3 Antimicrobial and Aging Properties of Ag-, Ag/Cu- and Ag Cluster-Doped Amorphous Carbon Coatings Produced by Magnetron Sputtering for Aerospace Application, *G. Sanzone, J. Yin, Hailin Sun*, Teer Coatings Ltd, UK

DP-ThP-4 Structure and Mechanical Properties of Superelastic TiZrNb and TiSnZrNb Coatings for Biomedical Applications, *T. Choquet, A. Fillon*, Institut des Sciences Chimiques de Rennes, France; *A. Michel*, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; *M. Vaysse*, Université de technologie de Compiègne, France; *T. Gloriant*, Institut des Sciences Chimiques de Rennes, France; *Gregory Abadias*, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France

DP-ThP-5 Development of Multilayer Hydroxyapatite (HA) - Silicon (Si) Coatings Deposited on Ti6Al4V by Magnetron Sputtering with Potential Biomedical Application, *Julián Andrés Lenis Rodas, K. Perez Zapata, F. Bolívar Osorio*, University of Antioquia, Colombia; *P. Rico, J. Gómez Ribelles*, University of Valencia, Spain

DP-ThP-6 Effective Antiviral Copper Coatings onto Thermoplastic Against SARS-CoV-2, *C. Popescu*, IRCCY, France; *M. Courant*, CHU Limoges, France; *E. Laborde*, IRCCY, France; *S. Alain*, CHU Limoges, France; *V. Perin*, Kometa Technologies, France; *A. Castro*, CITRA, France; *L. Youssef*, IRCCY, France; *T. Maerten*, Oerlikon-Balzers, France; *Marjorie Cavarrac*, Safran, France; *D. Alain*, A. Vardelle, IRCCY, France

DP-ThP-7 Antibacterial Graphene Coatings Electrophoretically Deposited on Nitinol Substrate, *Madhusmita Mallick, K. Mitra, A. N.*, Indian Institute of Technology (IIT) Madras, India

Coatings for Use at High Temperatures

Room Golden State Ballroom - Session AP-ThP

Coatings for Use at High Temperatures (Symposium A) Poster Session - 5:00pm – 7:00 pm

AP-ThP-2 Corrosion Induced Diffusion Pathways in Pvd Al_{1-x}Cr_xN Coatings Investigated by Atom Probe Tomography, *Oliver Ernst Hudak*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; *T. Wojcik*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria; *V. Dalbauer*, Department of Materials Science, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany; *L. Shang, M. Arndt, O. Hunold*, Oerlikon Balzers, Oerlikon Surface Solutions AG, 9496 Balzers, Liechtenstein; *P. Polcik*, Plansee Composite Materials GmbH, D-86983 Lechbruck am See, Germany; *P. Felfer*, Department of Materials Science, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany; *H. Riedl*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria

AP-ThP-8 Microstructure and Oxidation Behaviour of MoSi₂ Thin Films Grown by DCMS and HiPIMS, *Ahmed Bahr, S. Richter, T. Wojcik*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria; *J. Ramm, O. Hunold*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; *S. Kolozsvári*, Plansee Composite Materials GmbH , Germany; *H. Riedl*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria

Functional Thin Films and Surfaces

Room Golden State Ballroom - Session CP

Functional Thin Films and Surfaces (Symposium C) Poster Session - 5:00pm – 7:00 pm

CP-1 Cross-Linking Processes in Antimicrobial UV-Sol-Gel and Thermal-Sol-Gel Systems Initiated by Atmospheric Pressure Plasma Characterized by FTIR, *Simon Chwatal, J. Lackner, W. Waldhauser*, Joanneum Research Forschungsgesellschaft GmbH, Austria; *M. Stummer*, INOCON Technologie GmbH, Austria; *H. Steiner*, Aerospace & Advanced Composites GmbH, Austria; *A. Coelite*, Graz University of Technology, Austria

CP-2 Crystallization and Vitrification Kinetics by Design: The Role of Chemical Bonding, *Matthias Wuttig*, RWTH Aachen University, Germany

CP-3 Theoretical and Experimental Study to Simplify AgZn Alloy IR Refractive Index Calculation, *Daniel Lin, T. Ding, G. Ding*, Labforinvention, USA

CP-6 Sputter Deposited Advanced Anode Functional Layers for Solid Oxide Fuel Cells, *K. Steier, Justyna Kulczyk-Malecka, P. Kelly*, Manchester Metropolitan University, UK

CP-8 Unraveling the Bisignate and Broadband Chiroptical Response from All-Dielectric Distorted L-Shape Metamaterials, *Ufuk Kılıç, M. Hilfiker, S. Wimer, A. Ruder, E. Schubert, C. Aryopoulos, M. Schubert*, University of Nebraska-Lincoln, USA

CP-10 Microstructured Electrodeposition of Copper Tempered by Photo-Induced Monolayer Patterning, *David Sconyers, C. Longo, J. Maurer*, US Army DEVCOM AC, Benet Laboratories, USA

CP-12 Ag Segregation in Co-sputtered ZrCuAlNi:Ag Thin Films, *M. Steinhoff, D. Holzapfel, S. Karimi Aghda, D. Neuß, P. Pöllmann, M. Hans*, RWTH Aachen University, Germany; *D. Primetzhofer*, Uppsala University, Sweden; *J. Schneider, Clio Azina*, RWTH Aachen University, Germany

Hard Coatings and Vapor Deposition Technologies

Room Golden State Ballroom - Session BP-ThP

Hard Coatings and Vapor Deposition Technologies (Symposium B) Poster Session - 5:00pm – 7:00 pm

BP-ThP-1 Influence of Various Tool Steels and Cemented Carbide on Growth of PVD Hard Coatings, *K. Bobzin, C. Kalscheuer, Marco Carlet, D. Hoffmann*, RWTH Aachen University, Germany

BP-ThP-2 Influence of Deposition Parameters on Chemistry, Structure and Mechanical Properties of Vanadium Carbide Thin Films, *Barbara Schmid, N. Koutná*, TU Wien, Institute of Materials Science and Technology, Austria; *E. Halwax*, TU Wien, Austria; *P. Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria

BP-ThP-3 Influence of High-Power Pulse Magnetron Sputtering Tantalum Nitride Film Characteristics and Protection Behavior, *Yung-Chi Chang, S. Hsu, C. Tu, D. Hong, F. Wu*, National United University, Taiwan

Thursday Afternoon, May 26, 2022

BP-ThP-5 Rotating Spokes in Reactive HiPIMS Process Measured by Spatially Resolved OES, *Marta Šlapanská, M. Kroker, J. Hnilica, P. Klein, P. Vašina, Masaryk University, Czechia*

BP-ThP-6 Sputtered Amorphous Carbon Interlayers for Homogeneous Lithium Plating and Stripping in Solid-State Batteries, *T. Amelal, M. Futscher, J. Patidar, A. Müller, A. Aribia, Y. Romanyuk, Sebastian Siol, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland*

BP-ThP-9 e-Poster Presentation: Effect of Precursor Interactions on Film Growth Rate and Properties in Chemical Vapor Deposition of $\text{Hf}_{1-x}\text{Al}_x\text{B}_2$ Alloy Films, *Kinsey Canova, S. Shrivastav, C. Romnes, D. Yun, J. Krogstad, J. Abelson, University of Illinois at Urbana-Champaign, USA*

BP-ThP-13 Biocompatibility Evaluation of nc-TiC/a-C:H Nanocomposite Diamond-like Carbon Coatings: Effect of Carbon Content, *B. Lou, Chang Gung University, Taiwan; Y. Hsiao, L. Chang, Ming Chi University of Technology, Taiwan; M. Ger, National Defense University, Taiwan; Jyh-Wei Lee, Ming Chi University of Technology, Taiwan*

BP-ThP-14 TiN/TaN Superlattice Films Improved by Interfacial Dopings, *Zecui Gao, N. Kouná, J. Buchinger, T. Wojcik, P. Mayrhofer, TU Wien, Institute of Materials Science and Technology, Austria*

BP-ThP-16 Fifty Shades of TiN: How Deposition Conditions Influence the Growth Morphology and Thereby Hardness and Especially Fracture Toughness, *Paul Mayrhofer, R. Hahn, B. Hajas, A. Kirnbauer, TU Wien, Austria*

New Horizons in Coatings and Thin Films

Room Golden State Ballroom - Session FP-ThP

New Horizons in Coatings and Thin Films (Symposium F) Poster Session - 5:00pm – 7:00 pm

FP-ThP-1 Analysis of (Al,Cr,Nb,Ta,Ti)-Nitride and Oxynitride Diffusion Barriers in Cu-Si Interconnects by 3D-Secondary Ion Mass Spectrometry, *Andreas Kretschmer, TU Wien, Institute of Materials Science and Technology, Austria; F. Bohrn, H. Hutter, TU Wien, Institute of Chemical Technologies and Analytics, Austria; E. Pitthan, D. Primetzhofer, Uppsala University, Department of Physics and Astronomy, Sweden; P. Mayrhofer, TU Wien, Institute of Materials Science and Technology, Austria*

FP-ThP-2 Maximum Achievable N Content in Amorphous Nitrides, *Jiri Houska, University of West Bohemia, Czechia*

FP-ThP-3 Bulk Diffusion of Impurities in TiN: An Ab Initio Study, *Ganesh Kumar Nayak, Montanuniversität Leoben, Austria; M. Popov, Material Center Leoben, Austria; D. Holec, Montanuniversität Leoben, Austria*

FP-ThP-5 Data-Driven Design Guidelines for Ceramic Superlattices With Enhanced Fracture Resistance, *Nikola Koutná, A. Brenner, TU Wien, Austria; D. Holec, Montanuniversität Leoben, Austria; P. Mayrhofer, TU Wien, Austria*

FP-ThP-6 Preparation of Single and Multilayer Films of Boron Carbide, Titanium Diboride and Hexagonal Boron Nitride Using Pulsed Laser Deposition, *Falko Jahn, S. Weißmantel, Laserinstitut Hochschule Mittweida, Germany*

FP-ThP-7 Anisotropic Super-hardness of Hexagonal WB_{2-z} Thin Films, *Christoph Fuger, R. Hahn, L. Zauner, T. Wojcik, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria; M. Weiss, A. Limbeck, Institute of Chemical Technologies and Analytics, TU Wien, Austria; O. Hunold, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; P. Polcik, Plansee Composite Materials GmbH, Germany; H. Riedl, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien , Austria*

FP-ThP-10 Characterization of a Novel Ionic Liquid-Based Chromium Plating Formulation, *Cameron Longo, D. Sconyers, US Army - DEVCOM AC - Benet Laboratories, USA; M. Quiraz-Guzman, D. Morrison, T. Bush, M. Arsenault, Trion Coatings, LLC, USA; J. Maurer, US Army - DEVCOM AC - Benet Laboratories, USA*

Surface Engineering - Applied Research and Industrial Applications

Room Golden State Ballroom - Session GP-ThP

Surface Engineering - Applied Research and Industrial Applications (Symposium G) Poster Session – 5:00pm – 7:00 pm

GP-ThP-1 Water and Oil Repellent Coating on Fabric Using Hollow Cathode PECDV, *R. Mbamkeu Chakoune, Univ Appl Sci & Arts (HAWK), Göttingen, Germany; J. Jolibois, AGC Interpane, Germany; O. Kappertz, Univ Appl Sci & Arts, (HAWK), Göttingen, Germany; John Chambers, AGC Plasma Technology Solutions, USA; H. Weis, AGC Interpane, Germany; H. Wiame, AGC Plasma Technology Solutions, Belgium; W. Viöl, Univ Appl Sci & Arts (HAWK), Göttingen, Germany*

GP-ThP-2 Modification of Polymer 3d Printed Parts Through Vacuum Metallization, *Andrew Miceli, G. Bevill, S. Stagon, University of North Florida, USA*

GP-ThP-8 Reactive HiPIMS Deposition of AlO_x Interlayer for Pt Thermistors on SiN_x, *Atasi Dan, E. Antunes, C. Yung, N. Tomlin, M. Stephens, Applied Physics Division, National Institute of Standards and Technology (NIST), Boulder, USA; J. Lehman, Applied Physics Division, National Institute of Standards and Technology (NIST), USA*

GP-ThP-9 Synthesis of Large Area ta-C Coating by Single-bend FCVA Source Using in-line PVD System, *HoeKun Kim, K. Lee, S. Lee, Korea Aerospace University, Korea (Republic of); J. Kim, University of Incheon, Korea (Republic of)*

Topical Symposia

Room Golden State Ballroom - Session TS1P-ThP

Anti- and De-Icing Surface Engineering - TS1 Poster Session - 5:00pm – 7:00 pm

TS1P-ThP-1 A Fracture Mechanics Approach to Ice-Shedding Surfaces, *Michael Wood, P. Servio, A. Kietzig, McGill University, Dept. Chemical Engineering, Canada*

Topical Symposia

Room Golden State Ballroom - Session TS3P-ThP

Electrochemical Cells – Hydrogen and Batteries - TS3 Poster Session - 5:00pm – 7:00 pm

TS3P-ThP-1 Ionic Conductive Polymer Electrolyte for High-Performance Flexible Solid-State Supercapacitors, *Hayley Ghidley Redda, W. Su, R. Chen, B. Hwang, National Taiwan University of Science and Technology, Taiwan*

Tribology and Mechanical Behavior of Coatings and Engineered Surfaces

Room Golden State Ballroom - Session EP-ThP

Tribology and Mechanical Behavior of Coatings and Engineered Surfaces (Symposium E) Poster Session - 5:00pm – 7:00 pm

EP-ThP-2 Atmospheric Pressure Plasma Deposition of Low Friction Coatings on Engineering Thermoplastics: The Plasma-Process-Structure in the Versatile Spray Coating Technique as Basis of Commercial Applications, *Dietmar Kopp, J. Lackner, R. Kaindl, W. Waldhauser, Joanneum Research Forschungsgesellschaft GmbH, Austria; M. Stummer, INOCON, Austria; A. Coelite, Graz University of Technology, Austria*

EP-ThP-3 The Influence of Boron in Thick AlTiN and AlCrN Coatings Deposited by Bipolar HiPIMS to Control Residual Stress and Improve Tribomechanical Properties, *Adrián Claver, Institute for Advanced Materials and Mathematics (INAMAT2), Universidad Pública de Navarra (UPNA), Spain; I. Fernandez, Nano4Energy SL, Spain; J. Endrino, Nano4Energy SL, University Loyola, Sevilla (Spain), Spain; J. Santiago, Nano4Energy SL, Spain; J. Fernández Palacio, Centre of Advanced Surface Engineering, AIN, Spain; J. García, Institute for Advanced Materials and Mathematics (INAMAT2), Universidad Pública de Navarra (UPNA), Spain*

EP-ThP-5 Optimized a-SiC_x:H Intermediate Layers for Well-adhered a-C:H Thin Films on Ferrous Alloys, *V. Pirolí, J. Weber, M. Goldbeck, UCS, Brazil; F. Cemin, UNICAMP, Brazil; A. Michels, UCS, Brazil; F. Alvarez, UNICAMP, Brazil; Carlos Figueroa, UCS, Brazil*

EP-ThP-6 A Deep Neural Network for Pattern Optimization of Microtextured Surfaces in Lubricated Contacts, *A. Silva, Veniero Lenzi, L. Marques, University of Minho, Portugal*

EP-ThP-7 e-Poster Presentation: Tribological Behavior of Lamellar Solid Lubricant Coatings in Low Viscosity Hydrocarbons, *Euan Cairns, A. Ayyagari, University of North Texas, USA; S. Berkebile, US DEVCOM Army Research laboratory, USA; D. Berman, S. Aouadi, A. Voevodin, University of North Texas, USA*

EP-ThP-10 Mechanical Behaviour and Effects of Cu/Ni Nanolaminate Coatings on the Fatigue Properties of Welded Steel Specimen, *Jakob Brunow, M. Rutner, Hamburg University of Technology, Institute for Metal and Composite Structures, Germany*

EP-ThP-11 Nanoindentation Spectrometry, *Esteban Broitman, SKF B.V., Netherlands*

Friday Morning, May 27, 2022

Room Town & Country B	
8:00am	INVITED: TS1-FrM-1 Penguin-Inspired Anti-Icing Surfaces, <i>Anne Kietzig, M. Wood</i> , McGill University, Canada
8:20am	
8:40am	TS1-FrM-3 Screening of Anti-Icing Strategies Against Aeronautic Secondary Icing, <i>Paloma García, J. Mora, F. Carreño, M. González, A. Agüero Bruna</i> , Instituto Nacional de Técnica Aeroespacial (INTA), Spain
9:00am	TS1-FrM-4 Influence of Organosilicon Based Modification on Ice Adhesion and Wettability of Unsaturated Polyester Gelcoats Surfaces, <i>Rafal Kozera, B. Przybyszewski, K. Zolynska</i> , Warsaw University of Technology, Materials Science and Engineering, Poland; <i>B. Sztorch, R. Przekop</i> , Adam Mickiewicz University of Poznan, Poland; <i>A. Boczkowska</i> , Warsaw University of Technology, Materials Science and Engineering, Poland
9:20am	TS1-FrM-5 Quasicrystalline Coatings Exhibit Durable Low Interfacial Toughness with Ice, <i>Kevin Golovin</i> , University of Toronto, Canada

Friday Morning, May 27, 2022

Room Town & Country C	
8:00am	INVITED: F3-FrM-1 Tackling Scalability in the Synthesis of Two Dimensional Chalcogenide Semiconductors and their Heterostructures, <i>Nicholas Glavin</i> , Air Force Research Laboratory, USA
8:20am	
8:40am	F3-FrM-3 2D Nanosheets Exfoliation and Functionalization from Hexagonal Boron Nitride in Aqueous Phase for Ultrafast Solvent Transport of Molecular Solute Screening Film, <i>Degu Lere Keshebo, C. HU, J. Lai</i> , National Taiwan University of Science and Technology, Taiwan
9:00am	INVITED: C4-FrM-4 Shedding Light on Implant Biointerfaces: Designing Innovative Photocatalytic Coatings Towards Cell-Assisting and Bacteria-Killing Functions on Titanium, <i>Valentim Barão, B. Nagay, C. Dini, H. Pantaroto</i> , University of Campinas (UNICAMP), Brazil
9:20am	
9:40am	INVITED: C4-FrM-6 Hematite and Titania Thin Films: Energy and Environmental Applications (Virtual Presentation), <i>Josef Krysa</i> , University of Chemistry and Technology, Czechia
10:00am	
10:20am	C4-FrM-8 Multifunctional Coatings for Maritime Applications, <i>José Castro, M. Lima, I. Carvalho, M. Henriques</i> , University of Minho, Portugal; <i>S. Carvalho</i> , University of Coimbra, Portugal

Author Index

Bold page numbers indicate presenter

— A —

- Abadias, G.: DP-ThP-4, **44**; H1-1-MoM-3, **4**
Abdalla, M.: D2-TuM-2, 13
Abelson, J.: A1-1-MoM-6, 5; BP-ThP-9, 45
Abraha, P.: G2-ThM-5, **37**
Abrikosov, I.: B4-3-TuM-4, 17; F5-1-MoM-1, 6;
TS4-ThA-3, 40; TS4-ThA-9, 40
Abuhussein, E.: D3-TuA-2, 20
Achache, S.: B1-1-ThM-7, 38; F2-1-TuM-4, 16
ACHACHE, S.: F2-1-TuM-2, 16
Achenbach, J.: F4-3-ThM-3, 36
Achille, A.: B4-3-TuM-6, **17**
Adams, D.: C2-2-ThM-11, **35**
Adriaans, M.: B3-ThA-6, 40
Agüero Bruna, A.: A1-1-MoM-1, **5**; TS1-FrM-3,
47
Alain, D.: DP-ThP-6, 44
Alain, S.: DP-ThP-6, 44
Alexandre, R.: G3-TuA-3, **21**
ALHUSSEIN, A.: A2-1-TuA-8, **23**
Alishahi, M.: F4-3-ThM-8, 36
Alnjiman, F.: C2-2-ThM-9, 35
Al-Rjoub, A.: E1-2-WeM-5, 27
Alvarez, F.: E1-1-TuA-8, 22; EP-ThP-5, 45
Alves, C.: D1-1-MoM-6, 4
Amelal, T.: B8-2-ThA-4, 43; BP-ThP-6, 45
Amigo-Borras, V.: TS6-3-TuA-8, 21
Anasori, B.: E1-1-TuA-1, **22**
Anders, A.: B8-1-ThM-5, 38; B8-2-ThA-6, **43**;
B8-2-ThA-9, **43**
Anderson, D.: D2-TuM-2, 13
Andric, P.: E1-2-WeM-2, 27
Andritschky, M.: C3-2-ThA-9, 42
Anton, R.: A2-2-WeM-13, **27**
Antoniou, A.: H1-2-MoA-5, 9
Antunes, E.: C2-2-ThM-6, 35; GP-ThP-8, 45
Aouadi, S.: E1-1-TuA-5, 22; EP-ThP-7, 46; TS4-
ThA-11, 40
Arab Pour Yazdi, M.: B1-1-ThM-7, 38
Argibay, N.: E1-1-TuA-3, 22
Argyropoulos, C.: H1-2-MoA-8, 9
Arias, E.: B5-2-WeA-5, 32
Aribia, A.: BP-ThP-6, 45
Armiento, R.: TS4-ThA-9, 40
Armstrong, B.: A1-3-TuM-7, 14
Arndt, M.: A1-1-MoM-5, 5; AP-ThP-2, 44; B5-
1-WeM-2, 28
Arnold, T.: B1-2-ThA-1, **42**
Arsenault, M.: FP-ThP-10, 45
Arunachalam Sugumaran, A.: B8-1-ThM-6, 38
Aryopoulos, C.: CP-8, 44
Attarimashalkoubeh, B.: C2-1-WeA-8, 33
Aubert, G.: B5-2-WeA-7, 32
Audigé, P.: A1-1-MoM-1, 5
Auyeung, R.: G4-MoA-2, 10
Aymonier, C.: B5-2-WeA-7, 32
Ayyagari, A.: E1-1-TuA-5, 22; EP-ThP-7, 46
Azina, C.: CP-12, **44**
Azzi, M.: A2-2-WeM-12, 27; E3-TuM-4, **15**

— B —

- Babonneau, D.: H1-1-MoM-3, 4
Bäcke, O.: B2-1-MoM-6, 5

- Bae, J.: B1-1-ThM-2, 38; B1-2-ThA-3, 42;
B8-1-ThM-8, 38; F4-3-ThM-11, 36
Bagcivan, N.: TS3-WeA-10, 31
Bahillo, A.: A1-1-MoM-1, 5
Bahr, A.: A2-1-TuA-5, **23**; AP-ThP-8, **44**; F4-
2-WeA-3, 30
Baker, A.: B1-2-ThA-3, 42; B8-1-ThM-8, 38
Bakhit, B.: B4-3-TuM-4, 17; H3-TuA-8, 20
Bakkar, S.: A2-1-TuA-3, **23**
Balazsi, K.: F4-3-ThM-8, 36
Baloukas, B.: A2-2-WeM-12, 27
Barão, V.: C4-FrM-4, **48**
Barbosa, F.: C3-2-ThA-9, 42
Barlaz, D.: B8-2-ThA-3, 43
Barnett, S.: TS6-1-MoA-11, **10**
Barron, N.: A1-1-MoM-3, 5
Barta, T.: C1-WeM-10, 25
Barth, A.: TS5-MoM-3, 7
Bauer, J.: B1-2-ThA-1, 42; H2-2-WeM-12,
26
Bauer, P.: A2-1-TuA-9, **23**
Bayu Aji, L.: B1-1-ThM-2, 38; B1-2-ThA-3,
42; B8-1-ThM-8, 38; F4-3-ThM-11, 36
Beake, B.: H3-TuA-5, **20**
Beck, K.: A1-1-MoM-4, 5
Becker, J.: TS5-MoM-3, 7
Becker, W.: A1-2-MoA-9, 12
Beechem, T.: C2-2-ThM-11, 35
Belvezé, S.: TS2-1-TuA-4, 19
Bendikov, T.: C1-WeM-3, **25**
Benito, M.: A1-1-MoM-1, 5
Bergeron, F.: A1-2-MoA-6, 12
Berkebile, S.: E1-1-TuA-5, 22; EP-ThP-7, 46
Berman, D.: E1-1-TuA-5, 22; E1-2-WeM-3,
27; EP-ThP-7, 46
Berman, S.: E2-2-ThA-6, 41
Berndt, C.: G2-ThM-1, **37**
Berthomé, G.: C1-WeM-4, 25
Bevill, G.: GP-ThP-2, 45
Bick, T.: B4-4-TuA-11, 23
Bierwisch, N.: G4-MoA-1, 10
Billard, A.: B1-1-ThM-7, 38
Billings, C.: D2-TuM-2, 13
Birch, J.: B4-3-TuM-5, 17
Birkett, M.: D1-2-MoA-6, **9**
Birkett, M.: D1-2-MoA-3, 9
Bitar-Nehme, E.: E3-TuM-4, 15
Blair, V.: TS4-ThA-11, 40
Blanchard, F.: A2-2-WeM-12, **27**
Blanquet, E.: B2-1-MoM-5, 5
Bobzin, K.: B1-2-ThA-4, 42; B1-2-ThA-5,
42; BP-ThP-1, 44; G3-TuA-2, 21
Bock, F.: TS4-ThA-3, 40
Boczkowska, A.: TS1-FrM-4, 47; TS5-MoM-
4, 7
Boehm, G.: B1-2-ThA-1, 42
Boehme, S.: C2-2-ThM-8, 35
Bogdanovski, D.: B5-1-WeM-2, 28; F4-3-
ThM-3, 36
Bohrn, F.: FP-ThP-1, 45
BOICHOT, R.: TS4-ThA-8, 40
Bolelli, G.: E1-3-WeA-1, **31**
Bolívar Osorio, F.: DP-ThP-5, 44; E2-2-ThA-
7, 41
Bolvardi, H.: B3-ThA-5, **40**

- Bolz, S.: G3-TuA-1, 21
Boman, M.: B2-1-MoM-6, 5
Bondarchukat, O.: C3-2-ThA-9, 42
Bondarev, A.: E1-2-WeM-11, **27**
Böör, K.: B2-1-MoM-6, 5
Borroto, A.: B1-1-ThM-8, **38**
Bouissil, A.: F2-1-TuM-4, **16**
Bourquard, F.: B1-1-ThM-8, 38
Bousquet, E.: C3-1-ThM-3, 35
Bousser, E.: B4-2-MoA-4, 12
Buyer, E.: TS3-WeA-8, **31**
Boyce, B.: H3-TuA-3, **20**
Boyd, R.: B4-3-TuM-4, 17
Bradley, J.: B8-2-ThA-1, **43**
Brenner, A.: FP-ThP-5, 45
Brenning, N.: B3-ThA-6, 40; B8-1-ThM-5,
38
Brgoch, J.: TS4-ThA-6, **40**
Briois, P.: B1-1-ThM-7, 38
Broitman, E.: E1-2-WeM-2, **27**; EP-ThP-11,
46
Brown, S.: A1-2-MoA-6, **12**
Bruce, H.: C2-2-ThM-7, 35
Brunow, J.: EP-ThP-10, **46**
Bruyère, S.: B1-1-ThM-8, 38
Buchinger, J.: B1-1-ThM-6, 38; B4-2-MoA-
3, 12; BP-ThP-14, 45
Buling, A.: G1-TuM-6, **16**
Bumgardner, J.: D3-TuA-2, 20
Bundesmann, C.: B8-2-ThA-6, 43
Bursikova, V.: F4-3-ThM-8, 36
Buršíková, V.: F4-3-ThM-10, 36
Burzynski, K.: F1-WeA-4, **30**
Bush, T.: FP-ThP-10, 45

— C —

- Čada, M.: G4-MoA-3, 10
Cahen, D.: C1-WeM-3, 25
Cairns, E.: EP-ThP-7, **46**
Calamba, K.: B4-3-TuM-4, 17
Caldarelli, A.: A1-2-MoA-11, **12**
Cammarata, A.: E1-1-TuA-8, 22
Canova, K.: A1-1-MoM-6, 5; BP-ThP-9, **45**
Carbogno, C.: TS4-ThA-10, 40
Carlet, M.: B1-2-ThA-4, 42; B1-2-ThA-5,
42; BP-ThP-1, **44**; G3-TuA-2, 21
Carnide, G.: F1-WeA-7, 30
Carreño, F.: TS1-FrM-3, 47
Carvalho, I.: C4-FrM-8, 48
Carvalho, S.: B8-1-ThM-7, **38**; C4-FrM-8,
48; D1-1-MoM-6, 4; G2-ThM-6, 37
Castro, A.: DP-ThP-6, 44
Castro, J.: C4-FrM-8, **48**; D1-1-MoM-6, 4
Cavaleiro, A.: B8-1-ThM-7, 38; E1-2-WeM-
10, 27; E1-2-WeM-5, **27**; E3-TuM-3, 15
Cavaleiro, D.: G2-ThM-6, **37**
Cavarroc, M.: A1-2-MoA-6, 12; B4-3-TuM-
6, 17; B5-2-WeA-7, 32; DP-ThP-6, **44**; F1-
WeA-7, 30; TS2-1-TuA-4, 19
Cemin, F.: E1-1-TuA-8, 22; EP-ThP-5, 45
Cerstvy, R.: B5-1-WeM-3, 28
Cervena, M.: B5-1-WeM-3, 28
Chacon, E.: B5-2-WeA-4, 32
Chambers, J.: GP-ThP-1, **45**
Chandross, M.: E1-1-TuA-3, **22**

Author Index

- Chang, L.: BP-ThP-13, 45
 Chang, Y.: B4-3-TuM-3, 17; BP-ThP-3, **45**
 CHARAI, A.: F2-2-TuA-3, 22
 Charipar, K.: G4-MoA-2, 10
 Chason, E.: E2-2-ThA-6, 41
 CHaussende, D.: C1-WeM-4, 25
 Chen, R.: TS3P-ThP-1, 45
 Chen, Z.: F5-1-MoM-3, 6; F5-1-MoM-4, 6
 Cheng, J.: F5-2-MoA-11, **11**
 Cheng, K.: D1-2-MoA-5, 9
 Cherian Lukose , C.: D1-2-MoA-6, 9
 Chiu, Y.: B6-2-WeA-3, 33
 Chodun, R.: B3-ThA-8, 40
 Chollon, G.: B4-4-TuA-10, 23
 Choquet, T.: DP-ThP-4, 44
 Chu, J.: TS6-3-TuA-1, **21**
 Chwatal, S.: CP-1, **44**
 Clark, T.: C2-2-ThM-11, 35
 Claver, A.: D1-1-MoM-2, **4**; EP-ThP-3, **45**
 Clergereaux, R.: F1-WeA-7, 30
 Coati, A.: H1-1-MoM-3, 4
 Coclite, A.: CP-1, 44; EP-ThP-2, 45
 COINDEAU, S.: TS4-ThA-8, 40
 Coleman, E.: D3-TuA-2, **20**
 Colombier, J.: B1-1-ThM-8, 38
 Colominas, C.: G3-TuA-8, **21**
 Contreras Romero, E.: E2-2-ThA-7, 41
 Cooper, S.: TS4-ThA-11, **40**
 Cordill, M.: E2-1-ThM-10, 37; E2-1-ThM-9, 37; E2-2-ThA-5, 41; F2-2-TuA-2, 22; SIT2-TuSIT-1, **24**; TS2-1-TuA-3, 19
 Correia, F.: C3-2-ThA-8, 42; C3-2-ThA-9, 42
 Correia, R.: C3-2-ThA-9, 42
 Couégnat, G.: B4-4-TuA-10, 23
 Courant, M.: DP-ThP-6, 44
 CREUS, J.: A2-1-TuA-8, 23
 Crisci, A.: B2-2-MoA-3, 11; C1-WeM-4, 25
 Cruz, J.: TS6-3-TuA-3, 21
 Cubillos Gonzalez, G.: D2-TuM-5, 13
 Custer, J.: C2-2-ThM-11, 35
 Czettl, C.: B4-1-MoM-4, 6
 Czigany, Z.: F4-3-ThM-8, 36
 Czigány, Z.: B5-1-WeM-5, 28
- D —**
- Dalbauer, V.: AP-ThP-2, 44
 D'Alessandro, C.: A1-2-MoA-11, 12
 Dan, A.: C2-2-ThM-6, **35**; GP-ThP-8, **45**
 Danet, J.: B2-2-MoA-1, 11; B4-4-TuA-10, 23
 Daniel, R.: B4-1-MoM-3, 6; B4-1-MoM-5, 6
 Daugela, A.: H2-1-TuM-6, **13**; HP-ThP-5, 44
 Daugela, J.: H2-1-TuM-6, 13; HP-ThP-5, **44**
 Davies, C.: B8-1-ThM-6, 38
 de los Arcos, T.: B1-2-ThA-5, 42
 De Luca, D.: A1-2-MoA-11, 12
 De Maio, D.: A1-2-MoA-11, 12
 de miguel Gamo, T.: A1-3-TuM-4, 14
 De Miguel Gamo, T.: A1-3-TuM-5, 14
 de Resseguier, T.: H2-1-TuM-5, 13
 Debnarova, S.: F4-3-ThM-8, 36
 Delfino de Campos Neto, N.: G1-TuM-7, 16; G3-TuA-5, **21**
 Depla, D.: E2-2-ThA-6, **41**; TS6-3-TuA-10, **21**
 Derrien, A.: B2-2-MoA-1, **11**
 Desmarres, J.: E2-1-ThM-11, 37
- DEVOS, A.: E2-1-ThM-11, **37**
 Di Gennaro, E.: A1-2-MoA-11, 12
 Diaz-Rodriguez, P.: B5-2-WeA-4, 32; TS3-WeA-7, **31**
 Dickes, D.: E1-3-WeA-3, 31
 Diliberto, S.: C2-2-ThM-9, 35
 Ding, G.: CP-3, 44
 Ding, T.: CP-3, 44
 Dini, C.: C4-FrM-4, 48
 Dockins, M.: E1-1-TuA-5, **22**; TS4-ThA-11, 40
 Doerwald, D.: B6-2-WeA-1, 33
 Dong, C.: H1-2-MoA-2, 9
 Dryepondt, S.: A1-3-TuM-7, **14**
- E —**
- Echeverrigaray, F.: E1-1-TuA-8, 22
 Eckert, J.: TS2-1-TuA-8, 19
 Edwards, M.: D3-TuA-2, 20
 Edwards, T.: H3-TuA-8, **20**
 Eggeler, Y.: H1-2-MoA-6, **9**
 Ehiasarian, A.: B8-1-ThM-6, **38**
 El Garah, M.: F2-1-TuM-4, 16
 EL GARAH, M.: F2-2-TuA-3, **22**
 ELGARAH, M.: F2-1-TuM-2, 16
 Eliasson, H.: B3-ThA-6, 40
 Emery-Adleman, T.: C2-2-ThM-10, 35
 Endrino, J.: B5-2-WeA-4, 32; EP-ThP-3, 45
 Engwall, A.: B1-1-ThM-2, **38**; B1-2-ThA-3, 42; B8-1-ThM-8, 38; F4-3-ThM-11, 36
 Eriksson, A.: B5-1-WeM-2, 28; G3-TuA-10, **21**
 Esselbach, M.: TS5-MoM-3, 7
 Esteves, P.: D3-TuA-1, **20**
 Evertz, S.: B5-1-WeM-5, 28; F4-3-ThM-3, 36
- F —**
- Faese, F.: H1-1-MoM-5, 4
 Fallqvist, M.: B2-1-MoM-6, 5
 Fan, Q.: B8-1-ThM-3, 38
 Farahani, B.: B5-2-WeA-6, **32**
 FARSY, A.: B8-1-ThM-1, **38**
 Faurie, D.: TS2-1-TuA-5, **19**
 Felfer, P.: AP-ThP-2, 44
 Fernandes, F.: E1-2-WeM-5, 27; F5-2-MoA-8, 11; G2-ThM-6, 37
 Fernández Palacio, J.: B5-2-WeA-5, 32; EP-ThP-3, 45
 Fernandez, A.: C3-1-ThM-1, **35**
 Fernandez, I.: B5-2-WeA-4, **32**; B8-2-ThA-5, **43**; D1-1-MoM-2, 4; EP-ThP-3, 45; TS3-WeA-7, 31
 Fernández, I.: B5-2-WeA-5, 32
 Fernández-Lizárraga, M.: D1-1-MoM-5, 4
 Ferreira, F.: B8-1-ThM-7, 38; E3-TuM-3, 15
 Fialho, L.: D1-1-MoM-6, **4**
 Fiantok, T.: B6-1-WeM-11, 28; F4-2-WeA-5, **30**; F4-3-ThM-7, 36
 Figueroa, C.: E1-1-TuA-8, **22**; EP-ThP-5, **45**
 Fillon, A.: DP-ThP-4, 44
 Flanagan, W.: A2-1-TuA-3, 23
 Fonné, J.: C1-WeM-5, 25
 Foo, Y.: TS6-2-TuM-5, **14**
 Fopp-Spori, D.: G3-TuA-10, 21
 Forstner, D.: HP-ThP-1, 44
 Fourcade, S.: B4-3-TuM-6, 17
- Fransen, G.: B3-ThA-2, 40
 Franz, R.: F2-2-TuA-2, **22**
 Fritze, S.: F2-2-TuA-10, 22
 Fu, Y.: B8-1-ThM-3, 38
 Fuchs, A.: B6-2-WeA-1, 33
 Fuger, C.: F4-3-ThM-4, **36**; FP-ThP-7, **45**
 Fukarek, W.: B3-ThA-7, 40
 Fukumasu, N.: D3-TuA-1, 20; E1-2-WeM-12, **27**
 Futscher, M.: BP-ThP-6, 45
- G —**
- G. Kilic, S.: H1-2-MoA-8, 9
 Gabel, S.: H3-TuA-9, 20
 Gabriel, H.: B5-2-WeA-5, 32
 Gachot, C.: E1-2-WeM-1, 27; E1-2-WeM-6, **27**
 Galetz, M.: A1-1-MoM-4, 5; A1-2-MoA-10, 12; A1-2-MoA-5, 12; E1-3-WeA-3, 31
 Gallais, L.: C1-WeM-5, 25
 Gammer, C.: F2-2-TuA-2, 22
 Gao, Z.: B4-2-MoA-3, **12**; B5-1-WeM-4, 28; BP-ThP-14, **45**
 Garbacz, H.: TS5-MoM-4, 7
 Garcia fuentes, G.: B5-2-WeA-5, **32**
 García Martín, G.: A1-3-TuM-4, **14**; A1-3-TuM-5, 14
 Garcia, E.: A2-2-WeM-3, 27
 García, J.: D1-1-MoM-2, 4; EP-ThP-3, 45
 Garcia, N.: A1-3-TuM-4, 14
 García, P.: TS1-FrM-3, **47**
 García-López , J.: D1-1-MoM-5, 4
 Garel, E.: C1-WeM-4, 25
 GAREL, E.: TS4-ThA-8, **40**
 Garrelie, F.: B1-1-ThM-8, 38
 Gatti, C.: C3-1-ThM-3, 35
 Gaudino, E.: A1-2-MoA-11, 12
 Gebhart, D.: TS2-1-TuA-3, **19**
 Ger, M.: BP-ThP-13, 45
 Geringer, J.: D2-TuM-6, **13**
 Ghafoor, N.: B4-3-TuM-5, 17
 Ghanbaja, J.: C2-2-ThM-9, 35
 Ghoshal, A.: TS4-ThA-11, 40
 Girardeau, A.: F1-WeA-7, **30**
 Glass, G.: TS6-2-TuM-3, **14**
 Glatzel, U.: E1-3-WeA-3, 31
 Glavin, N.: F3-FrM-1, **48**
 Glechner, T.: A2-1-TuA-5, 23; F4-1-WeM-2, 26; F4-2-WeA-3, 30; F4-3-ThM-7, 36
 Gloriant, T.: DP-ThP-4, 44
 Glushko, O.: TS2-1-TuA-8, **19**
 Godard, P.: TS2-1-TuA-5, 19
 Goldbeck, M.: EP-ThP-5, 45
 Golovin, K.: TS1-FrM-5, **47**
 Golub, P.: C3-1-ThM-3, 35
 Gomes Costa, A.: D2-TuM-6, 13
 Gómez de Castro, C.: A1-3-TuM-4, 14
 Gómez Ribelles, J.: DP-ThP-5, 44; E2-2-ThA-7, 41
 Gonçalves , F.: A1-3-TuM-5, 14
 Goni, A.: C3-2-ThA-8, 42
 Gonzales Martin , M.: E2-2-ThA-7, 41
 Gonzalez, D.: TS6-3-TuA-8, 21
 González, M.: TS1-FrM-3, 47
 González-Estrada, O.: D2-TuM-1, **13**
 Grabowski, B.: F5-2-MoA-9, 11
 Gradwohl, K.: F1-WeA-3, 30

Author Index

Grančič, B.: F4-1-WeM-5, 26; F4-3-ThM-7, 36
 Greczynski, G.: F4-2-WeA-4, 30; H3-TuA-8, 20; TS6-1-MoA-9, 10; TS6-2-TuM-1, 14
 Greene, J.: TS6-1-MoA-1, 10; TS6-1-MoA-9, 10; TS6-2-TuM-1, 14
 Grimme, C.: A1-2-MoA-5, 12
 Gruber, G.: F2-2-TuA-2, 22
 Gruber, P.: F1-WeA-3, 30; TS2-1-TuA-1, 19
 Grundmeier, G.: B1-2-ThA-5, 42
 Grützmacher, P.: E1-2-WeM-1, 27
 Gudmundsson, J.: B3-ThA-6, 40; B8-1-ThM-5, 38
 Guillemet, R.: H2-1-TuM-7, 13
 Guimard, D.: C1-WeM-5, 25
 Guimond, S.: B3-ThA-1, 40; TS2-1-TuA-4, 19
 Guski, V.: B4-2-MoA-1, 12
 Gutiérrez, M.: A1-1-MoM-1, 5
 Guyon, C.: A2-1-TuA-4, 23
 Guzman, A.: B5-2-WeA-4, 32

— H —

Haas, T.: TS2-1-TuA-1, 19
 Hackett, B.: H2-1-TuM-4, 13
 Hackner, J.: TS3-WeA-10, 31
 Haehnlein, I.: B8-2-ThA-3, 43
 Hahn, R.: B1-1-ThM-6, 38; B4-2-MoA-3, 12; B5-2-WeA-3, 32; BP-ThP-16, 45; F4-1-WeM-2, 26; F4-2-WeA-3, 30; F4-3-ThM-4, 36; FP-ThP-7, 45; H2-2-WeM-10, 26; HP-ThP-1, 44; HP-ThP-2, 44
 Hajas, B.: BP-ThP-16, 45; F2-1-TuM-3, 16; F2-2-TuA-4, 22
 Hajihoseini, H.: B3-ThA-6, 40
 Hajihoseini, H.: B8-1-ThM-5, 38
 Hallén, W.: C2-2-ThM-7, 35
 Halvarsson, M.: B2-1-MoM-6, 5
 Halwax, E.: BP-ThP-2, 44
 Hamje, J.: B4-4-TuA-11, 23
 Hammons, J.: F4-3-ThM-11, 36
 Hans, M.: B4-1-MoM-5, 6; B5-1-WeM-2, 28; B5-1-WeM-5, 28; CP-12, 44; F2-1-TuM-3, 16; F4-1-WeM-1, 26; F4-3-ThM-3, 36; F4-3-ThM-8, 36; H1-2-MoA-1, 9; HP-ThP-8, 44
 Hansen, L.: H1-2-MoA-3, 9
 Hao, W.: B2-2-MoA-5, 11
 Harder, B.: A2-2-WeM-10, 27
 Hattar, K.: C2-2-ThM-11, 35
 Hatto, P.: B8-1-ThM-6, 38
 Haviar, S.: B5-1-WeM-3, 28
 Hayashi, S.: A1-2-MoA-7, 12
 Haye, E.: C2-2-ThM-9, 35
 Heilmayer, M.: A1-1-MoM-4, 5
 Heinz, B.: C2-1-WeA-8, 33
 Hellgren, N.: F4-2-WeA-4, 30
 Hening, A.: C2-2-ThM-10, 35
 Henriques, M.: C4-FrM-8, 48
 Hilfiker, M.: CP-8, 44; H1-2-MoA-8, 9
 Hinkle, A.: E1-1-TuA-3, 22
 Hinrichs, F.: A1-1-MoM-4, 5
 Hintze, W.: G3-TuA-2, 21
 Hirata, M.: D3-TuA-1, 20
 Hirle, A.: F4-3-ThM-4, 36
 Hnilica, J.: BP-ThP-5, 45
 Hodes, G.: C1-WeM-3, 25

Hoffmann, D.: BP-ThP-1, 44
 Hofmann, F.: B3-ThA-9, 40
 Höglberg, H.: B4-1-MoM-1, 6
 Holec, D.: B4-1-MoM-5, 6; B5-1-WeM-2, 28; B5-1-WeM-5, 28; F2-1-TuM-3, 16; F5-1-MoM-3, 6; F5-1-MoM-4, 6; F5-1-MoM-7, 6; F5-2-MoA-7, 11; FP-ThP-3, 45; FP-ThP-5, 45
 Holz, H.: H3-TuA-10, 20; H3-TuA-9, 20; HP-ThP-6, 44
 Holzapfel, D.: B5-1-WeM-2, 28; B5-1-WeM-5, 28; CP-12, 44; F4-1-WeM-1, 26; F4-3-ThM-3, 36; F4-3-ThM-8, 36
 Hong, D.: BP-ThP-3, 45
 Hopkins, P.: A2-2-WeM-1, 27
 Horwat, D.: B1-1-ThM-8, 38
 Hossain, A.: B2-2-MoA-5, 11
 Hossain, T.: A2-1-TuA-3, 23
 Hou, S.: D1-2-MoA-4, 9
 Houlahan, T.: B8-2-ThA-3, 43
 Houska, J.: C1-WeM-10, 25; FP-ThP-2, 45
 Hovsepian, P.: B8-1-ThM-6, 38
 Hruby, H.: B4-1-MoM-5, 6
 Hsiao, Y.: BP-ThP-13, 45
 Hsu, S.: B4-3-TuM-3, 17; BP-ThP-3, 45
 Hsu, T.: B4-3-TuM-4, 17
 Hu, C.: F3-FrM-3, 48
 Huang, J.: B6-2-WeA-3, 33
 Huber, W.: B8-2-ThA-3, 43
 Hubička, Z.: G4-MoA-3, 10
 Hudak, O.: A1-1-MoM-5, 5; A1-3-TuM-6, 14; AP-ThP-2, 44
 Hultman, L.: F4-2-WeA-4, 30; F5-1-MoM-3, 6; F5-1-MoM-4, 6; TS6-1-MoA-1, 10; TS6-1-MoA-9, 10; TS6-2-TuM-1, 14
 Hultmann, L.: H3-TuA-8, 20
 Hunold, O.: A1-1-MoM-5, 5; A2-1-TuA-5, 23; AP-ThP-2, 44; AP-ThP-8, 44; F4-1-WeM-2, 26; F4-2-WeA-3, 30; F4-3-ThM-4, 36; FP-ThP-7, 45; H2-2-WeM-10, 26; HP-ThP-1, 44; HP-ThP-2, 44
 Hurtado Macías, A.: E2-2-ThA-7, 41
 Hutter, H.: FP-ThP-1, 45
 Hwang, B.: TS3P-ThP-1, 45

— I —

Ianno, N.: H1-2-MoA-8, 9
 Ibrahim, H.: D2-TuM-2, 13
 Ihlefeld, J.: A2-2-WeM-1, 27
 Illana Sánchez, A.: A1-3-TuM-5, 14
 Immich, P.: B3-ThA-2, 40; B6-2-WeA-1, 33
 Inspektor, A.: B6-2-WeA-2, 33
 Ishikawa, E.: A1-2-MoA-7, 12
 Izai, V.: F4-3-ThM-7, 36

— J —

J. Kaufman, M.: G3-TuA-5, 21
 Jacobs, R.: B3-ThA-2, 40
 Jacques, S.: B2-2-MoA-1, 11
 Jadidi, M.: B5-2-WeA-6, 32
 Jaeger, N.: B4-1-MoM-3, 6
 Jäger, N.: B4-1-MoM-5, 6
 Jahn, F.: FP-ThP-6, 45
 Jain, M.: H3-TuA-8, 20
 Jamnig, A.: H1-1-MoM-3, 4
 Janknecht, R.: B5-2-WeA-3, 32
 Janowitz, J.: B1-2-ThA-4, 42

Jansson, U.: F2-2-TuA-10, 22
 Jaoul, C.: TS2-1-TuA-4, 19
 Jeckell, Z.: B8-2-ThA-3, 43
 Jennings, J.: D3-TuA-2, 20
 Jilek, M.: B3-ThA-5, 40
 Jílek, M.: F4-3-ThM-10, 36
 Johnson, L.: B4-3-TuM-4, 17; TS4-ThA-9, 40
 Jolibois, J.: GP-ThP-1, 45
 Jones, M.: E1-1-TuA-3, 22
 Journet, C.: B2-2-MoA-5, 11
 Juez Lorenzo, M.: A1-2-MoA-9, 12
 Jung, H.: F1-WeA-5, 30
 Jurczyk, B.: B8-2-ThA-3, 43

— K —

Kadi, M.: A2-2-WeM-12, 27
 Kadin, Y.: E1-2-WeM-2, 27
 Kagerer, S.: A1-3-TuM-6, 14
 Kahn, M.: F1-WeA-7, 30
 Kahvecioglu, O.: TS3-WeA-5, 31
 Kaindl, R.: EP-ThP-2, 45
 Kalanov, D.: B8-2-ThA-6, 43; B8-2-ThA-9, 43
 Kalinko, A.: C3-2-ThA-9, 42
 Kalscheuer, C.: B1-2-ThA-4, 42; B1-2-ThA-5, 42; BP-ThP-1, 44; G3-Tua-2, 21
 Kance, K.: A2-2-WeM-5, 27
 Kane, K.: A2-2-WeM-3, 27
 Kappertz, O.: GP-ThP-1, 45
 Kara, Z.: E3-TuM-7, 15
 Karimi Aghda, S.: CP-12, 44
 Karppinen, M.: C3-2-ThA-6, 42
 Kaslasi, H.: C1-WeM-3, 25
 Kaufman, M.: G1-TuM-7, 16
 Kaulfuss, F.: B3-ThA-9, 40
 Keckes, J.: B4-1-MoM-3, 6; B4-1-MoM-5, 6
 Kelly, P.: A1-1-MoM-3, 5; B5-1-WeM-4, 28; CP-6, 44
 Kennedy, W.: F1-WeA-4, 30
 Kéraudy, J.: B3-ThA-1, 40
 Kerbstadt, M.: A1-2-MoA-10, 12
 Kersten, H.: B3-ThA-7, 40; H1-2-MoA-3, 9
 Keshebo, D.: F3-FrM-3, 48
 Kessels, E.: C2-2-ThM-4, 35
 Khatibi, G.: E2-2-ThA-3, 41
 Khetan, V.: G1-TuM-8, 16
 Kielczawa, T.: A2-2-WeM-6, 27
 Kienle, L.: H1-2-MoA-3, 9
 Kietzig, A.: TS1-FrM-1, 47; TS1P-ThP-1, 45
 Kilic, U.: CP-8, 44; H1-2-MoA-8, 9
 Kim, B.: TS2-1-TuA-1, 19
 Kim, H.: G2-ThM-8, 37; G4-MoA-2, 10; GP-ThP-9, 45
 Kim, J.: GP-ThP-9, 45
 Kinnerk, K.: D1-2-MoA-5, 9
 Kirnbauer, A.: B5-2-WeA-3, 32; BP-ThP-16, 45; F2-2-TuA-4, 22; F2-2-TuA-9, 22
 Kirste, L.: C2-1-WeA-7, 33
 Kistanov, A.: C2-2-ThM-8, 35
 Klamann, L.: A2-1-TuA-9, 23
 Klein, P.: BP-ThP-5, 45
 Klemberg-Sapieha, J.: A1-2-MoA-6, 12; B1-1-ThM-5, 38; B4-2-MoA-4, 12; HL-WeHL-1, 34
 Klette, M.: B3-ThA-7, 40
 Kluson, J.: B3-ThA-5, 40

Bold page indicates presenter

Author Index

- Knittel, S.: A1-2-MoA-6, 12
 Knoop, F.: TS4-ThA-10, **40**
 Kogin, T.: A1-2-MoA-7, 12
 Kohlmann, N.: H1-2-MoA-3, 9
 Kolarik, V.: A1-2-MoA-9, **12**
 Kolenaty, D.: C1-WeM-10, 25
 Kolev, I.: B6-2-WeA-1, **33**
 Kölker, W.: G3-TuA-1, 21
 Kolozsvári, S.: A1-1-MoM-5, 5; B1-1-ThM-6, 38
 Kolozsvári, S.: A2-1-TuA-5, 23; AP-ThP-8, 44; HP-ThP-1, 44
 Kopp, D.: EP-ThP-2, **45**
 Kopte, M.: B3-ThA-7, 40
 Korenyi-Both, A.: G1-TuM-7, 16
 Körmann, F.: F5-2-MoA-9, 11
 Kousaka, H.: B2-1-MoM-3, 5
 Koutna, N.: F5-1-MoM-4, 6
 Koutná, N.: B1-1-ThM-6, 38; B4-2-MoA-3, 12; B6-1-WeM-11, 28; BP-ThP-14, 45; BP-ThP-2, 44; F5-1-MoM-3, **6**; F5-1-MoM-7, 6; FP-ThP-5, **45**
 Kovalenko, M.: C2-2-ThM-8, 35
 Kozak, T.: B8-1-ThM-2, **38**
 Kozera, R.: TS1-FrM-4, **47**; TS5-MoM-4, 7
 Krapf, A.: H2-2-WeM-11, **26**
 Krause, B.: H1-1-MoM-3, 4
 Krause, J.: B5-1-WeM-5, 28
 Kretschmer, A.: F2-1-TuM-3, **16**; F2-2-TuA-4, 22; F5-2-MoA-7, 11; FP-ThP-1, **45**
 Krogstad, J.: A1-1-MoM-6, 5; BP-ThP-9, 45
 Kroker, M.: BP-ThP-5, 45; F4-3-ThM-10, **36**; F4-3-ThM-8, 36
 Król, K.: B3-ThA-8, 40
 Kruelle, T.: B3-ThA-9, 40
 Kruppe, N.: TS3-WeA-10, **31**
 Krysa, J.: C4-FrM-6, **48**
 Kucheyev, S.: B1-1-ThM-2, 38; B1-2-ThA-3, 42; B8-1-ThM-8, **38**; F4-3-ThM-11, 36
 Kuczyńska, D.: TS5-MoM-4, 7
 Kulczyk-Malecka, J.: A1-1-MoM-3, 5; B5-1-WeM-4, **28**; CP-6, **44**
 Kupec, R.: A1-2-MoA-5, 12
 Kúš, P.: F4-1-WeM-5, 26; F4-3-ThM-7, 36
 Küttel, P.: H3-TuA-8, 20
 Kuzmin, A.: C3-2-ThA-9, 42
- L —**
- L. Korenyi-Both, A.: G3-TuA-5, 21
 Laborde, E.: DP-ThP-6, 44
 Labrugere, C.: B4-3-TuM-6, 17
 Lachowski, A.: B3-ThA-8, 40
 Lackner, J.: CP-1, 44; EP-ThP-2, 45
 Lager, L.: B2-2-MoA-1, 11
 LaGrow, A.: C3-2-ThA-9, 42
 Lahneman, D.: G4-MoA-2, 10
 Lai, J.: F3-FrM-3, 48
 LAKDHAR, I.: A2-1-TuA-8, 23
 Lambrecht, M.: A1-3-TuM-4, 14
 Lance, M.: A1-3-TuM-7, 14; A2-2-WeM-3, 27; A2-2-WeM-5, **27**
 Landais, S.: A2-1-TuA-4, 23
 Lang, E.: C2-2-ThM-11, 35
 Langer, M.: TS4-ThA-10, 40
 Lasanta Carrasco, I.: A1-3-TuM-4, 14
 Laska, N.: A2-1-TuA-9, 23; A2-2-WeM-13, 27
- Lassnig, A.: E2-1-ThM-9, **37**; F2-2-TuA-2, 22
 Lavoie, C.: C2-2-ThM-7, 35
 Law, M.: B8-2-ThA-1, 43
 Le Coultre, S.: B3-ThA-10, **40**
 Le Doze, A.: B4-4-TuA-10, **23**
 Lee, B.: F4-3-ThM-11, 36
 Lee, J.: BP-ThP-13, **45**; D1-2-MoA-4, **9**
 Lee, K.: A2-2-WeM-10, 27; G2-ThM-8, 37; GP-ThP-9, 45
 Lee, N.: TS6-2-TuM-7, **14**
 Lee, S.: G2-ThM-8, 37; GP-ThP-9, 45
 Lehman, J.: C2-2-ThM-6, 35; GP-ThP-8, 45
 Leidens, L.: E1-1-TuA-8, 22
 Leiner, T.: F5-1-MoM-7, 6
 Leitao Almeida, B.: C1-WeM-5, **25**
 Lenis Rodas, J.: DP-ThP-5, **44**; E2-2-ThA-7, **41**
 Lenzi, V.: EP-ThP-6, **46**; F5-2-MoA-8, **11**
 Lepro Chavez, X.: F4-3-ThM-11, 36
 Leroy, M.: B1-1-ThM-8, 38
 Levämäki, H.: TS4-ThA-9, **40**
 Lewin, E.: F2-2-TuA-10, 22
 Leyendecker, T.: G3-TuA-1, 21
 Li, Q.: H1-2-MoA-5, **9**
 Li, X.: H1-2-MoA-4, **9**
 Liebscher, C.: B5-1-WeM-2, 28
 Lima, M.: B8-1-ThM-7, 38; C4-FrM-8, 48
 Limbeck, A.: FP-ThP-7, 45
 Lin, D.: CP-3, **44**
 Lin, J.: E1-1-TuA-9, **22**
 Lindahl, E.: B2-1-MoM-6, 5
 Lindblad, R.: B2-1-MoM-3, 6
 Liu, M.: B6-2-WeA-3, 33
 Liu, Z.: B2-2-MoA-2, **11**
 Löfler, L.: B4-1-MoM-5, 6; F4-1-WeM-1, 26; F5-1-MoM-3, 6; F5-1-MoM-4, 6
 Longo, C.: CP-10, 44; FP-ThP-10, **45**
 Lorentzon, M.: B4-3-TuM-5, **17**
 Lou, B.: BP-ThP-13, 45; D1-2-MoA-4, 9
 Lu, P.: E1-1-TuA-3, 22
 Lümkemann, A.: B3-ThA-5, 40
 Lundin, D.: B3-ThA-6, 40; B8-1-ThM-5, 38
- M —**
- Machado, I.: D3-TuA-1, 20; E1-2-WeM-12, 27
 Maeder, X.: F1-WeA-3, 30; H1-1-MoM-4, **4**
 Maerten, T.: DP-ThP-6, 44; TS2-1-TuA-4, 19
 Mahmoud, H.: TS2-1-TuA-5, 19
 Malaquias, V.: D3-TuA-1, 20
 Mallick, M.: DP-ThP-7, **44**; E1-3-WeA-4, **31**
 Maniyara, R.: H1-2-MoA-2, 9
 Manninen, N.: TS5-MoM-3, **7**
 Manuel Feil, N.: C2-1-WeA-7, 33
 Mareš, P.: G4-MoA-3, 10
 Marichy, C.: B2-2-MoA-5, **11**
 Marques, L.: EP-ThP-6, 46; F5-2-MoA-8, 11
 Martin, D.: B3-ThA-1, 40
 Martin, L.: C3-1-ThM-1, 35
 MARTIN, R.: TS4-ThA-8, 40
 Martinu, I.: E3-TuM-4, 15
 Martinu, L.: A1-2-MoA-6, 12; A2-2-WeM-12, 27; B1-1-ThM-5, 38; B4-2-MoA-4, 12
 Mastelaro, V.: TS6-3-TuA-8, 21
 Mathew, M.: D1-2-MoA-5, 9
- Matthey, J.: B3-ThA-10, 40
 Maurer, J.: CP-10, 44; FP-ThP-10, 45
 Mauvy, F.: B4-3-TuM-6, 17
 May, W.: G1-TuM-7, 16
 Mayer, E.: F4-3-ThM-3, 36
 Mayrhofer, P.: A1-3-TuM-6, **14**; B1-1-ThM-6, 38; B4-2-MoA-3, 12; B5-2-WeA-3, 32; BP-ThP-14, 45; BP-ThP-16, **45**; BP-ThP-2, 44; F2-1-TuM-3, 16; F2-2-TuA-4, 22; F2-2-TuA-9, 22; F4-1-WeM-3, 26; F5-1-MoM-3, 6; F5-1-MoM-4, 6; F5-1-MoM-7, 6; F5-2-MoA-7, 11; FP-ThP-1, 45; FP-ThP-5, 45; H2-2-WeM-10, 26; HP-ThP-1, 44
 Mbamkeu Chakounte, R.: GP-ThP-1, 45
 McCall, S.: B1-2-ThA-3, 42
 McGinnis, W.: C2-2-ThM-10, **35**
 McNallan, M.: D1-2-MoA-5, 9
 McNamara, S.: F1-WeA-5, 30
 Mee, M.: G2-ThM-3, **37**
 Meindlhumer, M.: B4-1-MoM-3, 6; B4-1-MoM-5, 6
 Melendez, G.: H1-2-MoA-8, 9
 Meletis, E.: B5-2-WeA-1, **32**
 Mendes, A.: C3-2-ThA-9, 42
 Mendez Bazurto, B.: D2-TuM-5, **13**
 Mendez, A.: B5-2-WeA-4, 32
 Mendez, J.: B4-2-MoA-4, 12
 Mendizabal, L.: D1-1-MoM-2, 4; TS3-WeA-7, 31
 Mengis, L.: E1-3-WeA-3, 31
 Mercier, F.: B2-1-MoM-5, 5; B2-2-MoA-3, **11**
 Merle, B.: H3-TuA-10, 20; H3-TuA-9, 20; HP-ThP-6, 44
 Mesbah, A.: B8-2-ThA-7, **43**
 Mesic, B.: G3-TuA-1, 21
 Miceli, A.: GP-ThP-2, **45**
 MICHAU, A.: F2-1-TuM-2, 16
 Michau, D.: B4-3-TuM-6, 17
 Michel, A.: DP-ThP-4, 44; H1-1-MoM-3, **4**
 Michelon, J.: H1-1-MoM-5, **4**
 Michels, A.: E1-1-TuA-8, 22; EP-ThP-5, 45
 Michler, J.: F1-WeA-3, 30; H1-1-MoM-4, 4; H3-TuA-8, 20
 Midson, S.: G1-TuM-7, **16**
 Migot, S.: C2-2-ThM-9, 35
 Mikula, M.: B6-1-WeM-11, **28**; F4-1-WeM-5, 26; F4-2-WeA-5, 30; F4-3-ThM-7, 36
 Miletic, A.: B4-2-MoA-4, 12
 Milhet, X.: H2-1-TuM-5, **13**
 Millan, B.: D1-1-MoM-1, **4**
 Millán-Ramos, B.: D1-1-MoM-5, **4**
 Miller, C.: A2-2-WeM-1, 27
 Minea, T.: B3-ThA-6, **40**; B8-1-ThM-1, 38; B8-1-ThM-5, 38; E1-1-TuA-8, 22
 Mingotaud, A.: F1-WeA-7, 30
 Minor, A.: H1-1-MoM-1, **4**; H1-2-MoA-4, 9
 Mirkarimi, P.: B1-1-ThM-2, 38; F4-3-ThM-11, 36
 Mirzaei, S.: F4-3-ThM-8, 36
 Misra, N.: TS2-1-TuA-1, 19
 Mitra, K.: DP-ThP-7, 44
 Mitterer, C.: B4-1-MoM-3, 6; B4-1-MoM-5, 6; E2-1-ThM-9, 37; TS2-1-TuA-8, 19
 Miyakoshi, Y.: A1-2-MoA-7, 12
 Mock, A.: H1-2-MoA-8, 9
 Moghtadernejad, S.: B5-2-WeA-6, 32

Author Index

Moldenhauer, J.: A2-1-TuA-3, 23

Molina, J.: B5-2-WeA-4, 32

Möller, C.: G3-TuA-2, 21

Molpeceres, C.: TS3-WeA-7, 31

Monclús, M.: B5-2-WeA-4, 32

Monteiro, T.: C3-2-ThA-9, 42

Moody, J.: B1-2-ThA-3, 42; B8-1-ThM-8, 38

Mora, J.: TS1-FrM-3, 47

Morais, M.: C1-WeM-4, 25

Morales-Furio, M.: TS3-WeA-7, 31

Morel, E.: B8-1-ThM-1, 38

Morina, A.: E3-TuM-5, 15

Moritz, Y.: B4-1-MoM-4, 6

Morquecho-Marín, D.: D1-1-MoM-5, 4

Morrison, D.: FP-ThP-10, 45

Morstein, M.: B3-ThA-3, 40

Moser, S.: E2-2-ThA-5, 41

Mraz, S.: F4-3-ThM-8, 36

Mráz, S.: F4-1-WeM-1, 26

Muhl, S.: TS6-3-TuA-3, 21

Müller, A.: BP-ThP-6, 45

Muller, E.: F1-WeA-4, 30

Müller, H.: B1-2-ThA-1, 42

Munday, J.: C1-WeM-1, 25

Münz, W.: TS6-1-MoA-5, 10

Muralidharan, G.: A1-3-TuM-7, 14

Muratore, C.: SIT1-MoSIT-1, 8

Musalek, R.: A2-2-WeM-6, 27

Music, D.: B5-1-WeM-2, 28; B5-1-WeM-5, 28

Musto, M.: A1-2-MoA-11, 12

— N —

N, A.: DP-ThP-7, 44; E1-3-WeA-4, 31

Nagay, B.: C4-FrM-4, 48

Nagy, Š.: F4-3-ThM-7, 36

Nair, A.: C2-1-WeA-7, 33

Namus, R.: D2-TuM-3, 13

Nascente, P.: TS6-3-TuA-8, 21

Navidi Kashani, A.: F4-1-WeM-1, 26

Nayak, G.: B5-1-WeM-5, 28; F5-1-MoM-4, 6; F5-2-MoA-7, 11; FP-ThP-3, 45

Negrea, G.: B3-ThA-2, 40

Nelhiebel, M.: E2-2-ThA-5, 41

Neto, M.: D1-2-MoA-1, 9

Neuenschwander, B.: B3-ThA-10, 40

Neuß, D.: B5-1-WeM-5, 28; CP-12, 44; HP-ThP-8, 44

Niefind, F.: H1-2-MoA-2, 9

Nielsen, M.: F4-3-ThM-11, 36

Noguchi, M.: A1-2-MoA-7, 12

Nowakowska, M.: A2-2-WeM-6, 27

Nowakowska-Langier, K.: B3-ThA-8, 40

Numpaque Rojas, G.: D2-TuM-5, 13

Nutter, J.: D2-TuM-3, 13

Nyffeler, C.: C2-1-WeA-8, 33

Nyman, J.: B4-1-MoM-1, 6

— O —

Oda, A.: B2-1-MoM-3, 5

Odén, M.: B4-3-TuM-4, 17; TS4-ThA-3, 40

Oh, K.: B8-2-ThA-9, 43

Öhman, S.: B2-2-MoA-4, 11

Ohta, T.: B2-1-MoM-3, 5

Olivares-Navarrete, R.: D1-1-MoM-3, 4

Oliveira, F.: B8-1-ThM-7, 38

Oliveira, J.: E3-TuM-3, 15

Oliver, W.: H2-1-TuM-4, 13; H2-1-TuM-7, 13

Olson, H.: A2-2-WeM-1, 27

Omotosho, K.: F1-WeA-6, 30

Ondracka, P.: F4-1-WeM-1, 26

Ondračka, P.: B5-1-WeM-5, 28

Opila, E.: A2-2-WeM-1, 27

Ortner, S.: A1-1-MoM-3, 5

Osinger, B.: F2-2-TuA-8, 22

Ospina, R.: D2-TuM-1, 13

Öte, M.: TS3-WeA-10, 31

Ott, N.: C2-2-ThM-8, 35

Ott, V.: B6-1-WeM-10, 28; E1-2-WeM-2, 27; F4-1-WeM-3, 26

Ouari, K.: B1-1-ThM-7, 38

Ouyang, F.: B4-3-TuM-1, 17

Ozerinc, S.: E3-TuM-7, 15

Öztürk, B.: E1-3-WeA-3, 31

— P —

P. Midson, S.: G3-TuA-5, 21

Pacha Olivenza, M.: E2-2-ThA-7, 41

Palisaitis, J.: F4-3-ThM-5, 36

Panagiotidis , M.: D1-2-MoA-6, 9

Panayiotidis, M.: D1-2-MoA-3, 9

Panizo, M.: B5-2-WeA-4, 32; TS3-WeA-7, 31

Pantaroto, H.: C4-FrM-4, 48

Papa, F.: G4-MoA-1, 10

Parker, C.: A2-2-WeM-3, 27

PAROUTY, J.: TS4-ThA-8, 40

Patidar, J.: B8-2-ThA-4, 43; BP-ThP-6, 45

PATOUT, L.: F2-2-TuA-3, 22

Patscheider, J.: C2-1-WeA-8, 33; FTS1-ThL-1, 39

Pauly, C.: B6-1-WeM-10, 28

Peigney, E.: B5-2-WeA-7, 32

Pérez Trujillo, F.: A1-3-TuM-4, 14; A1-3-TuM-5, 14

Perez Zapata, K.: DP-ThP-5, 44

Perin, V.: DP-ThP-6, 44

Perotti, B.: E1-1-TuA-8, 22

Persson, K.: F5-2-MoA-11, 11

Pertuz, A.: D2-TuM-1, 13

Petrov, I.: F4-2-WeA-4, 30; TS6-1-MoA-1, 10; TS6-1-MoA-9, 10; TS6-2-TuM-1, 14

Petriuhins, A.: F4-2-WeA-4, 30

Phani, P.: H2-1-TuM-7, 13

Pharr, G.: H2-1-TuM-4, 13

Pierron, O.: H1-2-MoA-5, 9; H2-2-WeM-6, 26

Pierson, J.: B1-1-ThM-8, 38; C2-2-ThM-9, 35

Pillai , R.: A1-3-TuM-7, 14

Pilloud, D.: B1-1-ThM-8, 38

Pint, B.: A2-2-WeM-3, 27; A2-2-WeM-5, 27

Pippa, R.: E2-1-ThM-9, 37

Pique, A.: G4-MoA-2, 10

Piroli, V.: EP-ThP-5, 45

Pitthan Filho, E.: B1-1-ThM-6, 38

Pitthan, E.: C2-2-ThM-7, 35; FP-ThP-1, 45

Ploog, P.: G3-TuA-2, 21

Pohler, M.: B4-1-MoM-4, 6

Polcar, T.: E1-1-TuA-8, 22; E1-2-WeM-11, 27

Polcik , P.: B5-2-WeA-3, 32

Polcik, P.: AP-ThP-2, 44; F2-2-TuA-9, 22;

F4-1-WeM-2, 26; F4-2-WeA-3, 30; F4-3-

ThM-4, 36; FP-ThP-7, 45; H2-2-WeM-10,

26; HP-ThP-2, 44

Pöllmann, P.: CP-12, 44; F4-3-ThM-3, 36

Ponnuswamy, T.: C2-1-WeA-9, 33

Pookpanratana, S.: H1-2-MoA-2, 9

Popescu, C.: DP-ThP-6, 44

Popok, V.: F1-WeA-1, 30

Popov, M.: FP-ThP-3, 45

Poulon-Quintin, A.: B4-3-TuM-6, 17; B5-2-WeA-7, 32

Pourzal, R.: D1-2-MoA-1, 9

Prados, E.: D3-TuA-1, 20

Presby, M.: A2-2-WeM-10, 27

Prescher, M.: C2-1-WeA-7, 33

Primetzhofer, D.: B1-1-ThM-6, 38; B5-1-WeM-2, 28; B5-1-WeM-5, 28; C2-2-ThM-7, 35; CP-12, 44; F4-1-WeM-1, 26; F4-2-

WeA-6, 30; F4-3-ThM-3, 36; FP-ThP-1, 45;

H1-2-MoA-1, 9; HP-ThP-8, 44

Prudent, M.: B1-1-ThM-8, 38

Przekop, R.: TS1-FrM-4, 47

Przybyszewski, B.: TS1-FrM-4, 47; TS5-

MoM-4, 7

Pshyk, A.: H3-TuA-8, 20

Pudza, I.: C3-2-ThA-9, 42

Pura, J.: TS5-MoM-4, 7

Putz, B.: F1-WeA-3, 30

— Q —

Qi, J.: D2-TuM-3, 13

Qian, J.: B1-1-ThM-5, 38

Qu, C.: F1-WeA-5, 30

Quintana, I.: D1-1-MoM-2, 4

Quiroz-Guzman, M.: FP-ThP-10, 45

— R —

Raadu, .: B8-1-ThM-5, 38

Raadu, M.: B3-ThA-6, 40

Rainforth, M.: D2-TuM-3, 13

Rakita, Y.: C1-WeM-3, 25

Ramm, J.: A2-1-TuA-5, 23; AP-ThP-8, 44;

F4-1-WeM-2, 26; F4-2-WeA-3, 30

Ranger, N.: TS2-1-TuA-4, 19

Rao, Z.: E2-2-ThA-6, 41

Raty, J.: C3-1-ThM-3, 35

Rebelo, C.: D1-1-MoM-6, 4

Rebillat, F.: B4-4-TuA-10, 23

Reboud, R.: B2-2-MoA-3, 11

Redda, H.: TS3P-ThP-1, 45

Reisinger, M.: E2-2-ThA-5, 41

Renault, P.: TS2-1-TuA-5, 19

Renk, O.: F5-1-MoM-4, 6

Renou, G.: C1-WeM-4, 25

Reparaz, S.: C3-2-ThA-8, 42

Resta, A.: H1-1-MoM-3, 4

Rezek, J.: B5-1-WeM-3, 28; C1-WeM-10, 25

Ribeiro, J.: C3-2-ThA-8, 42; C3-2-ThA-9, 42

Richter, S.: A2-1-TuA-5, 23; AP-ThP-8, 44

Rico, P.: DP-ThP-5, 44; E2-2-ThA-7, 41

Ridley, M.: A2-2-WeM-1, 27; A2-2-WeM-3, 27

Riedl, H.: A1-1-MoM-5, 5; A1-3-TuM-6, 14;

A2-1-TuA-5, 23; AP-ThP-2, 44; AP-ThP-8,

Author Index

- 44; F4-1-WeM-2, 26; F4-1-WeM-3, 26; F4-2-WeA-3, **30**; F4-3-ThM-4, 36; F4-3-ThM-7, 36; FP-ThP-7, 45; H2-2-WeM-10, 26; HP-ThP-1, 44; HP-ThP-2, 44
 Rieille, C.: B3-ThA-10, 40
 Riekehr, L.: F2-2-TuA-10, 22
 Righi, M.: E2-1-ThM-12, **37**
 Rio, C.: A2-1-TuA-4, 23
 ROBAUT, F.: TS4-ThA-8, 40
 Robertson, J.: C3-1-ThM-3, 35
 Robin, Y.: H1-1-MoM-3, 4
 Robinson, J.: H1-2-MoA-2, 9
 Roch, T.: F4-1-WeM-5, 26; F4-2-WeA-5, 30; F4-3-ThM-7, 36
 Rocha, L.: D2-TuM-6, 13
 Rockett, A.: TS6-1-MoA-7, **10**
 Rodil, S.: D1-1-MoM-1, 4; D1-1-MoM-5, 4
 Rodrigues, F.: C3-2-ThA-8, 42
 Rodriguez Ripoll, M.: E1-2-WeM-6, 27
 Rodriguez, M.: C2-2-ThM-11, 35
 Rodriguez, S.: A1-1-MoM-1, 5
 Roger, J.: B2-2-MoA-1, 11
 Rogström, L.: B4-3-TuM-4, 17
 Rohde, C.: G4-MoA-2, 10
 Rojas, N.: TS3-WeA-7, 31
 Romanyuk, Y.: BP-ThP-6, 45
 Romnes, C.: A1-1-MoM-6, 5; BP-ThP-9, 45
 Rosen, J.: F4-2-WeA-4, 30; TS4-ThA-1, **40**
 Rosenecker, S.: HP-ThP-1, 44
 Rosenkranz, A.: E1-2-WeM-1, 27
 Rossi, E.: H2-1-TuM-7, **13**; HP-ThP-7, **44**
 Rousseau, F.: A2-1-TuA-4, 23
 Rovere, F.: TS5-MoM-3, 7
 Rozsa, J.: F1-WeA-5, 30
 Ruder, A.: CP-8, 44
 Rudigier, H.: F2-1-TuM-3, 16
 Rudolph, M.: B3-ThA-6, 40; B8-1-ThM-5, **38**
 Rueß, H.: B5-1-WeM-5, 28
 Running, M.: F1-WeA-5, 30
 Rupp, M.: TS4-ThA-10, 40
 Russo, R.: A1-2-MoA-11, 12
 Rüth, S.: TS3-WeA-10, 31
 Rutner, M.: EP-ThP-10, 46
 Ruzic, D.: B8-2-ThA-3, 43
- S —**
- Sadrine, N.: C3-2-ThA-9, 42
 Sahu, R.: F4-3-ThM-3, 36
 Salamania, J.: B4-3-TuM-4, **17**
 Salanova, A.: A2-2-WeM-1, 27
 Sales de Mello, S.: E1-1-TuA-8, 22
 Sälker, J.: B5-1-WeM-5, 28
 Sampaio, P.: D1-1-MoM-6, 4
 Sanchette, F.: B1-1-ThM-7, 38; F2-1-TuM-4, 16
 SANCHETTE, F.: F2-1-TuM-2, 16; F2-2-TuA-3, 22
 Sánchez Espinoza, J.: B2-1-MoM-5, **5**
 Sanchez, M.: TS3-WeA-7, 31
 Sanchez-Lopez, J.: TS3-WeA-7, 31
 Sangines, R.: TS6-3-TuA-3, 21
 Sangiovanni, D.: B4-3-TuM-4, 17; B6-1-WeM-11, 28; F5-1-MoM-1, **6**; F5-1-MoM-3, 6; F5-1-MoM-4, 6; TS4-ThA-9, 40
 Santiago, J.: EP-ThP-3, 45; TS3-WeA-7, 31
 Santiago, J.: B5-2-WeA-4, 32; D1-1-MoM-2, 4
 Sanzone, G.: DP-ThP-3, 44
 Sapieha, J.: A2-2-WeM-12, 27; E3-TuM-4, 15
 Sarakinos, K.: H1-1-MoM-3, 4
 Saringer, C.: B4-1-MoM-4, 6
 Satrapinskyy, L.: F4-1-WeM-5, 26
 Schaefer, C.: B6-1-WeM-10, 28
 Schalk, N.: B4-1-MoM-4, 6; H1-2-MoA-1, 9
 Scheffler, M.: TS4-ThA-10, 40
 Scheiber, A.: A1-1-MoM-5, 5
 Scheu, C.: F4-3-ThM-3, 36
 Schiester, M.: H1-2-MoA-1, 9
 Schiffers, C.: G3-TuA-1, **21**
 Schloffer, M.: A1-3-TuM-6, 14
 Schmauder, S.: B4-2-MoA-1, 12
 Schmid, B.: B1-1-ThM-6, **38**; BP-ThP-2, **44**
 Schneider, J.: B4-1-MoM-5, 6; B5-1-WeM-2, 28; B5-1-WeM-5, 28; CP-12, 44; F2-1-TuM-3, 16; F4-1-WeM-1, **26**; F4-3-ThM-3, **36**; F4-3-ThM-8, 36; HP-ThP-8, 44
 Schön, C.: C3-1-ThM-3, 35
 Schramm, I.: B4-3-TuM-4, 17
 Schubert, E.: CP-8, 44; H1-2-MoA-8, 9
 Schubert, M.: CP-8, 44; H1-2-MoA-8, 9
 Schuelke, T.: B8-1-ThM-3, 38
 Schuermann, U.: H1-2-MoA-3, 9
 Schuh, C.: PL-MoPL-1, **3**
 Schulz, E.: TS3-WeA-10, 31
 Schulz, U.: A2-2-WeM-13, 27
 Schulze, F.: A1-2-MoA-5, 12
 Schumacher, M.: C3-1-ThM-3, 35
 Schuster, F.: F2-1-TuM-2, 16; TS5-MoM-1, **7**
 Schwarzer, N.: G4-MoA-1, 10
 Schweizer, P.: H1-1-MoM-4, 4
 Schwiderek, S.: B1-2-ThA-5, 42
 Sconyers, D.: CP-10, **44**; FP-ThP-10, 45
 Scott, E.: C2-2-ThM-11, 35
 Sebastiani, M.: H2-1-TuM-7, 13; HP-ThP-7, 44
 Segondy, S.: A2-1-TuA-4, **23**
 Sekora, D.: H1-2-MoA-8, 9
 Serra, R.: E3-TuM-3, 15
 Servio, P.: TS1P-ThP-1, 45
 Setlock, J.: A2-2-WeM-10, 27
 Sevilla, G.: TS3-WeA-7, 31
 Sghuri, A.: H2-1-TuM-5, 13
 Shang, L.: A1-1-MoM-5, 5; AP-ThP-2, 44
 Sharma, A.: F1-WeA-3, 30; H1-1-MoM-4, 4
 Shin, S.: B1-1-ThM-2, 38; B1-2-ThA-3, 42; B8-1-ThM-8, 38; F4-3-ThM-11, **36**
 Shrivastav, S.: A1-1-MoM-6, **5**; BP-ThP-9, 45
 Siegfried, K.: B3-ThA-1, 40
 Signor, L.: H2-1-TuM-5, 13
 Silva, A.: EP-ThP-6, 46
 Silva, R.: B8-1-ThM-7, 38
 Silva-Bermudez, P.: D1-1-MoM-5, **4**
 Simova, V.: B1-1-ThM-5, **38**
 Sinnott, S.: F5-1-MoM-5, **6**
 Siol, S.: B8-2-ThA-4, 43; BP-ThP-6, **45**; C2-2-ThM-8, **35**
 Siu, C.: TS3-WeA-5, **31**
 Skowroński, Ł.: B3-ThA-8, 40
 Šlapanská, M.: BP-ThP-5, **45**
 Smentkowski, V.: EX-TuM-1, **18**
 Sobczak, C.: C2-2-ThM-11, 35
 Sochora, V.: F4-3-ThM-10, 36
 Sokolowski, P.: A2-2-WeM-6, **27**
 Sortica, M.: F4-2-WeA-4, 30
 Soucek, P.: F4-3-ThM-8, **36**
 Souček, P.: F4-3-ThM-10, 36
 Sousa, M.: A1-3-TuM-5, 14
 Souza, R.: D3-TuA-1, 20; E1-2-WeM-12, 27
 Spolenak, R.: H2-1-TuM-1, **13**
 Spor, S.: B4-1-MoM-5, 6
 Srinivasan, P.: F5-2-MoA-9, **11**
 Srivilliputhur, S.: E1-1-TuA-5, 22
 Šroba, V.: F4-2-WeA-5, 30
 Šroba, V.: B6-1-WeM-11, 28; F4-1-WeM-5, 26; F4-3-ThM-7, **36**
 Stachowski, N.: G3-TuA-2, **21**
 Stagon, S.: GP-ThP-2, 45
 Stark, A.: B4-1-MoM-5, 6
 Steier, K.: CP-6, 44
 Steiner, H.: CP-1, 44
 Steinhoff, M.: CP-12, 44
 Steinmiller, E.: A2-1-TuA-3, 23
 Stephens, M.: C2-2-ThM-6, 35; GP-ThP-8, 45
 Steyer, P.: B1-1-ThM-8, 38
 Stiefel, M.: C2-2-ThM-8, 35
 Stoyanov, P.: SIT3-WeSIT-1, **29**
 Strijckmans, K.: TS6-3-TuA-10, 21
 Stüber, M.: E1-2-WeM-2, 27
 Stueber, M.: B6-1-WeM-10, 28; F4-1-WeM-3, **26**
 Stummer, M.: CP-1, 44; EP-ThP-2, 45
 Su, T.: E2-2-ThA-6, 41
 Su, W.: TS3P-ThP-1, 45
 Suarez, S.: E1-2-WeM-1, 27
 Sudharshan, P.: H2-1-TuM-4, 13
 Sun, H.: DP-ThP-3, **44**
 Sun, Y.: D1-2-MoA-5, **9**
 Sundgren, J.: TS6-1-MoA-1, 10; TS6-1-MoA-3, **10**
 Švec, P.: F4-2-WeA-5, 30
 Švec, Jr., P.: F4-3-ThM-7, 36
 Swadźba, R.: A2-1-TuA-9, 23
 Sztorch, B.: TS1-FrM-4, 47
- T —**
- Tabouret, V.: B2-2-MoA-3, 11; C1-WeM-4, **25**
 Tanaka, S.: A1-2-MoA-7, 12
 Tasnadi, F.: B4-3-TuM-4, 17; F5-1-MoM-1, 6; TS4-ThA-9, 40
 Tasnádi, F.: TS4-ThA-3, **40**
 Tavares, C.: C3-2-ThA-8, 42; C3-2-ThA-9, **42**
 Tegelaers, L.: B3-ThA-2, 40
 Tesar, T.: A2-2-WeM-6, 27
 Thiaudière, D.: TS2-1-TuA-5, 19
 Thorwarth, K.: B8-2-ThA-4, 43
 Tischhauser, J.: G3-TuA-10, 21
 Tkadletz, M.: B4-1-MoM-4, 6; H1-2-MoA-1, 9
 Többens, D.: F1-WeA-3, 30
 Toher, C.: A2-2-WeM-1, 27
 Tolbert, S.: F4-2-WeA-1, **30**
 Tomko, J.: A2-2-WeM-1, 27
 Tomko, K.: A2-2-WeM-1, 27

Author Index

Tomlin, N.: C2-2-ThM-6, 35; GP-ThP-8, 45

Toptan, F.: D2-TuM-6, 13

Torres, H.: E1-2-WeM-6, 27

TOUAIBIA, D.: F2-1-TuM-2, 16

Trabelsi, F.: B2-1-MoM-5, 5

Tran, T.: C2-2-ThM-7, 35; HP-ThP-8, 44

Treutler, K.: B4-4-TuA-11, 23

Tridon, X.: H1-1-MoM-5, 4

Tristant, P.: TS2-1-TuA-4, 19

Trout, A.: F1-WeA-4, 30

Truchly, M.: F4-2-WeA-5, 30

Truchlý, M.: F4-1-WeM-5, 26; F4-3-ThM-7, 36

Trzcinski, M.: B3-ThA-8, 40

Tscharnuter, D.: E2-2-ThA-5, 41

Tschiptschin, A.: D3-TuA-1, 20; E1-2-WeM-12, 27

Tsoutas, K.: B4-2-MoA-4, 12

Tu, C.: BP-ThP-3, 45

Tymoszuk, A.: H2-2-WeM-10, 26

— U —

Ulrich, A.: A1-1-MoM-4, 5; A1-2-MoA-10, 12

Ulrich, S.: B6-1-WeM-10, 28; F4-1-WeM-3, 26

Unutulmazsoy, Y.: B8-2-ThA-6, 43

— V —

Vahidi, A.: E3-TuM-3, 15

Van Bever, J.: TS6-3-TuA-10, 21

VAN LANDEGHEM, H.: TS4-ThA-8, 40

Vardelle, A.: DP-ThP-6, 44

Varela Jimenez, L.: B1-1-ThM-5, 38

Varela, L.: B4-2-MoA-4, 12

Vasina, P.: F4-3-ThM-8, 36

Vašina, P.: BP-ThP-5, 45; F4-3-ThM-10, 36

Vayssade, M.: DP-ThP-4, 44

Vecchio, K.: TS4-ThA-4, 40

Vercoulen, H.: B6-2-WeA-1, 33

VERDIER, M.: TS4-ThA-8, 40

Verestek, W.: B4-2-MoA-1, 12

Vermland, T.: G3-TuA-10, 21

Vetter, J.: TS5-MoM-3, 7

Vian, C.: G3-TuA-5, 21

Viana, F.: D2-TuM-6, 13

Victoria-Hernandez, J.: D1-1-MoM-1, 4

Viöl, W.: GP-ThP-1, 45

Virfeu, A.: C2-2-ThM-9, 35

Viskupová, K.: F4-1-WeM-5, 26

Vital-Juarez, A.: E2-1-ThM-11, 37

Vlad, A.: H1-1-MoM-3, 4

Vlcek, J.: C1-WeM-10, 25

Voevodin, A.: B1-1-ThM-3, 38; E1-1-TuA-5, 22; EP-ThP-7, 46; TS4-ThA-11, 40

vom Braucke, T.: G4-MoA-1, 10

von Fieandt, L.: B2-1-MoM-6, 5

Vuchkov, T.: E1-2-WeM-10, 27

Vyskočil, J.: G4-MoA-3, 10

— W —

Waldhauser, W.: CP-1, 44; EP-ThP-2, 45

Waldl, H.: H1-2-MoA-1, 9

Walker, C.: H2-1-TuM-4, 13

Wall, M.: C2-1-WeA-5, 33

Walsh, K.: F1-WeA-5, 30

Wang, K.: B8-1-ThM-3, 38

Weber, J.: EP-ThP-5, 45

Webster, R.: A2-2-WeM-1, 27

Weigand, M.: B2-1-MoM-2, 5

Weihnacht, V.: B3-ThA-9, 40

Weingaertner, T.: B6-1-WeM-10, 28

Weis, H.: GP-ThP-1, 45

Weiss, M.: FP-ThP-7, 45

Weiβmantel, S.: FP-ThP-6, 45

Welter, E.: C3-2-ThA-9, 42

Wennberg, A.: B5-2-WeA-4, 32

Wesling, V.: B4-4-TuA-11, 23

Wheeler, J.: H2-1-TuM-3, 13

Wiame, H.: GP-ThP-1, 45

Wicher, B.: B3-ThA-8, 40

Wimer, S.: CP-8, 44

Wojcik, T.: A2-1-TuA-5, 23; AP-ThP-2, 44;

AP-ThP-8, 44; B4-2-MoA-3, 12; F4-2-WeA-

3, 30; F4-3-ThM-4, 36; FP-ThP-7, 45; HP-

ThP-1, 44

Wojcika, T.: BP-ThP-14, 45

Wolf, P.: C2-2-ThM-7, 35; HP-ThP-8, 44

Wolff-Goodrich, S.: B5-1-WeM-2, 28

Wood, M.: TS1-FrM-1, 47; TS1P-ThP-1, 45

Wu, F.: B4-3-TuM-3, 17; BP-ThP-3, 45

Wuttig, M.: C3-1-ThM-3, 35; CP-2, 44

Wyatt, B.: E1-1-TuA-1, 22

— X —

Xiao, P.: B5-1-WeM-4, 28

Xu, L.: G2-ThM-7, 37

Xu, N.: E3-TuM-5, 15

— Y —

Yalamanchili, K.: B5-1-WeM-2, 28; F2-1-

TuM-3, 16

Yi, S.: TS2-1-TuA-1, 19

Yin, J.: DP-ThP-3, 44

Yoneda, S.: A1-2-MoA-7, 12

Young, M.: TS4-ThA-11, 40

Youssef, L.: DP-ThP-6, 44

Yun, D.: A1-1-MoM-6, 5; BP-ThP-9, 45

Yung, C.: C2-2-ThM-6, 35; GP-ThP-8, 45

— Z —

Zabeida, O.: B1-1-ThM-5, 38

Zabransky, L.: F4-3-ThM-8, 36

Zábranský, L.: F4-3-ThM-10, 36

Zak, S.: E2-1-ThM-10, 37; E2-1-ThM-9, 37;

F2-2-TuA-2, 22

Zalesak, J.: B4-1-MoM-5, 6

Zaleski, E.: A2-1-TuA-1, 23

Zanaska, M.: B3-ThA-6, 40

Zauner, L.: F4-1-WeM-2, 26; F4-2-WeA-3,

30; FP-ThP-7, 45; HP-ThP-2, 44

Zdunek, K.: B3-ThA-8, 40

Zechner, J.: E2-2-ThA-5, 41

Zeiler, S.: H3-TuA-10, 20

Zeman, P.: B5-1-WeM-3, 28

Zemlicka, R.: B3-ThA-5, 40

Zerrer, J.: G1-TuM-6, 16

Zgheib, E.: B1-1-ThM-7, 38

Zhang, S.: F4-3-ThM-3, 36

Zhang, Z.: C2-2-ThM-7, 35; F5-1-MoM-3,

6; F5-1-MoM-4, 6

Zheng, B.: B8-1-ThM-3, 38

Zhirkov, I.: F4-2-WeA-4, 30

Zhuk, S.: B8-2-ThA-4, 43; C2-2-ThM-8, 35

Zia, A.: D1-2-MoA-3, 9

Ziegelwanger, T.: B4-1-MoM-3, 6; B4-1-

MoM-5, 6

Zighem, F.: TS2-1-TuA-5, 19

Zolynska, K.: TS1-FrM-4, 47

Zucha, E.: A2-1-TuA-3, 23

Žukauskaitė, A.: C2-1-WeA-7, 33

Zuo, X.: F4-3-ThM-11, 36